## MR 223

# CANADIAN MINERAL DEPOSITS NOT BEING MINED IN 1989

Energy Mines and Resources Canada
Energie Mines et Ressources Canada

Canada

**THE ENERGY OF OUR RESOURCES**

**THE POWER OF OUR IDEAS**

MINERAL BULLETIN MR 223

# CANADIAN MINERAL DEPOSITS NOT BEING MINED IN 1989

November 1989

NATIONAL MINERAL INVENTORY
MINERAL POLICY SECTOR

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# PREFACE

This publication is an update of MR 213, compiled in 1986, which, like its predecessors, enjoyed excellent sales. Given the popularity of these reports among explorationists, this is not surprising, as a compilation of Canadian on–the–shelf mineral deposits with known tonnages and grades is a necessary reference for those looking for new mines.

The emphasis on exploration for precious metals noted in the previous edition continues to be reflected in this volume. Many of the new and updated entries are either new gold discoveries or developments of previously known gold prospects. Exploration for precious metal deposits in Canada continues strong as this compilation goes to press. Many parts of Canada are also witnessing a resurgence in the search for base metals.

Information for "Canadian Mineral Deposits Not Being Mined in 1989" was prepared by members of the National Mineral Inventory group in the Economic Policy Analysis Division of the Economic and Financial Policy Analysis Branch: A.A. Jakubek (Atlantic Provinces); Y.J. Lepinis (Ontario and Manitoba); D.C. MacRobbie (Saskatchewan, British Columbia and the Yukon Territory); and A.G. Sozanski (Quebec and the Northwest Territories).

Editorial assistance was provided by D.A. Cranstone and A.B.T. Werner of the Economic and Financial Policy Analysis Branch.

The National Mineral Inventory group relied extensively on their card files and on their experience in following up and recording mineral deposit development to ensure the information presented herein is as current as possible. Information was provided by many people within the Department of Energy, Mines and Resources, as well as elsewhere in the federal government, in provincial governments and in industry. Their help is thankfully acknowledged.

Ron R. Sully
Assistant Deputy Minister
Mineral Policy Sector

# PRÉFACE

La présente est une mise à jour de la publication MR 213, qui a été produite en 1986 et qui, comme les autres publications, s'est très bien vendue. Un tel résultat n'est pas surprenant puisque ce genre de rapport est prisé des prospecteurs. Ceux qui cherchent de nouveaux gisements ont en effet besoin d'un répertoire des gisements minéraux déjà découverts au Canada comprenant les teneurs et les tonnages.

Tout comme l'édition précédente, celle-ci reflète l'accent mis sur la recherche de métaux précieux. Bon nombre des entrées nouvelles et mises à jour représentent des gisements d'or nouvellement découverts ou l'aménagement de gisements d'or déjà connus. La prospection visant à trouver des métaux précieux va encore bon train au Canada au moment où ce répertoire est mis sous presse. De plus, la recherche de métaux communs est en plein essor dans de nombreuses parties du Canada.

Les renseignements nécessaires à la production de la publication intitulée "Canadian Mineral Deposits Not Being Mined in 1989" ont été traités par des membres du groupe chargé du Répertoire national des minéraux, Division de l'analyse de la politique économique, Direction de l'analyse de la politique économique et financière, soit A.A. Jakubek (provinces de l'Atlantique), Y.J. Lepinis (Ontario et Manitoba), D.C. MacRobbie (Saskatchewan, Colombie-Britannique et Yukon) et A.G. Sozanski (Québec et Territoires du Nord-Ouest).

D.A. Cranstone et A.B.T. Werner, de la Direction de l'analyse de la politique économique et financière, ont contribué à la révision du document.

D'une part, les membres du groupe chargé du Répertoire national des minéraux ont su puiser dans leurs fiches et leur expérience pour enregistrer l'aménagement des gisements de minéraux et en suivre l'évolution. D'autre part, de nombreuses personnes oeuvrant au ministère de l'Énergie, des Mines et des Ressources, ailleurs au gouvernement fédéral, au sein de gouvernements provinciaux et dans l'industrie ont participé à la création de ce répertoire en fournissant des données. Je remercie chacun de sa précieuse collaboration.

Ron R. Sully
Sous-ministre adjoint
Secteur de la politique minérale

# ABSTRACT

This is an inventory of Canadian mineral deposits for which tonnages and grades have been estimated and which are not expected to be in production by the end of 1989. Each deposit is summarized under several headings. The data include name, location, geology, history of work, resource figures, and remarks.

This compilation is based on data available to the end of May 1989. There are 1,943 deposit entries. It is intended as a handy reference to potential mineral producers and is the latest update of a series of such publications that have been issued by Mineral Policy Sector since 1976.

# RÉSUMÉ

Ce document est un répertoire des gisements minéraux du Canada pour lesquels les tonnages et les teneurs ont été évalués et qui, selon les prévisions, ne seront pas mis en production d'ici la fin de 1989. Les données concernant chaque gisement ont été résumées, puis réparties sous plusieurs titres. Ces données comprennent le nom, l'emplacement et la géologie du gisement, un bref historique des travaux effectués au gisement, des chiffres sur les ressources du gisement et des remarques.

Ce répertoire a été établi à partir des données disponibles à la fin de mai 1989. Il fournit des données sur 1 943 gisements. Il s'agit en somme d'un guide pratique destiné aux futurs producteurs de minéraux. Enfin, ce répertoire constitue la plus récente mise à jour d'une série de publications du même type diffusées par le Secteur de la politique minérale depuis 1976.

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# INTRODUCTION

This report lists known Canadian mineral deposits which, according to current information, will not be in production at the end of 1989. The inventory includes deposits of metals, other than iron, and some deposits of industrial minerals. Excluded are deposits of hydrocarbons and many industrial minerals, such as limestone, potash, and building and construction materials. Entries cover a broad spectrum of deposit size and economic viability. Deposits included are those for which tonnage–and–grade or analogous (e.g. dimensions and grade) figures exist. In a few cases, deposits believed to be significant, but for which resource figures are not available, are also listed.

"Canadian Mineral Deposits Not Being Mined in 1989" is the fifth compilation of its kind to be published by the Mineral Policy Sector. The first, "A Survey of Known Mineral Deposits in Canada that are Not Being Mined", by R.C. Annis, D.A. Cranstone and M. Vallée, was issued in 1976 as a miscellaneous publication and republished with an addendum in 1978 as Mineral Bulletin MR 181. The second, "Canadian Mineral Deposits Not Being Mined in 1980", was released in 1980 as Internal Report MRI 80/7, the third in 1984 as MR 198 and the fourth in 1986 as MR 213.

The format of the current publication is identical to that of its immediate predecessor. Table entries are organized by province or territory, National Topographic Series (NTS) area, and deposit name. Data is summarized under five headings:

| | |
|---|---|
| **Deposit:** | deposit or property name; last known owner; location by NTS area and latitude–longitude. |
| **Geology:** | a brief summary. |
| **Work:** | a brief chronological summary of exploration and development work and past production (if any). |
| **Tonnages & Grades:** | category of estimation; tonnage–grade or analogous data; year of estimation or re–evaluation (underlined); source of tonnage and grade figures (in brackets). |
| **Remarks:** | further details concerning tonnage and grade data; known factors pertaining to exploitability; current and planned work; additional data on location, and the like. |

Most of the tabulated data on each deposit was derived from the Mineral Policy Sector's National Mineral Inventory (NMI) records, which document comprehensively some 21,000 Canadian occurrences. The NMI records are based on various published and unpublished sources.

The amount and the quality of information on individual Canadian mineral deposits available for this compilation vary from reasonably complete to practically non–existent. Every effort has been made to consult all sources available and to produce the best and latest tonnage and grade figures. A reader must, however, be aware that tonnage–grade figures listed herein are based on various standards of estimation. While useful as they stand, the figures are not directly comparable and one must not be tempted, for instance, to add such figures in order to obtain a total resource estimate for a province.

In this compilation, care has been taken to minimize bias through interpretation. Deposit data including categories of resource estimation, such as proven, measured, drill–indicated, or speculative is presented as given. The tonnage–grade figures, including data on dilution, cut–offs, depth of estimation and the like, are transferred directly from the most complete available source, without conversion to any one system of measurement; alternative figures found in other reputable sources are also listed. An abbreviated reference to each tonnage–grade figure used is given.

Judgements or potentially controversial statements are confined to the "remarks" column. They are the responsibility of the compilers and do not reflect an official government position or policy.

Users are requested to bring any errors or omissions in this publication to the attention of the National Mineral Inventory unit so that future editions and NMI records can be improved. Please address your comments to:

National Mineral Inventory
Mineral Policy Sector
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 5H3
Telephone: (613) 992–8205
Fax: (613) 992–5893

National Mineral Inventory has some 21,000 mineral occurrence records on open file. This includes coverage of the deposits listed in this book in much greater detail. They also cover many thousands of other deposits and occurrences in Canada other than those in this volume. Xeroxed copies of the NMI records are available to the public at a nominal charge.

# INTRODUCTION

Ce rapport contient une liste des gisements minéraux du Canada qui sont connus et qui, d'après les renseignements dont nous disposons à l'heure actuelle, ne seront pas en production à la fin de 1989. Le répertoire comprend des gisements de métaux autres que le fer et quelques gisements de minéraux industriels. Les hydrocarbures et de nombreux minéraux industriels, comme le calcaire, la potasse et les matériaux de construction, sont toutefois exclus du répertoire. Les gisements inscrits dans ce répertoire ont des dimensions et des niveaux de rentabilité très variés. Nous avons retenu les gisements dont la teneur et le tonnage ou des caractéristiques semblables (p. ex. les dimensions et la teneur) ont été déterminés. Nous avons cependant inclus quelques gisements qui pourraient s'avérer importants bien qu'aucun chiffre sur leurs ressources ne soit disponible.

Le document intitulé "Canadian Mineral Deposits Not Being Mined in 1989" représente la cinquième édition d'un répertoire publié régulièrement par le Secteur de la politique minérale. Le premier répertoire, "A Survey of Known Mineral Deposits in Canada that are Not Being Mined", a été établi par R.C. Annis, D.A. Cranstone et M. Vallée. Il fut publié séparément en 1976, puis réédité en 1978 et alors augmenté d'un addenda et intégré à la série des bulletins minéraux sous le numéro MR 181. Le deuxième répertoire, qui avait pour titre "Canadian Mineral Deposits Not Being Mined in 1980", a été publié en 1980 sous forme du rapport interne MRI 80/7. Les troisième et quatrième répertoires, soit les documents MR 198 et MR 213, furent publiés respectivement en 1984 et en 1986.

Les gisements sont regroupés par province ou territoire et par région du Système national de référence cartographique (SNRC). Les données sont résumées sous cinq titres :

**Gisement :** nom du gisement ou de la propriété; le plus recent propriétaire connu; emplacement, soit région du SNRC, latitude et longitude.

**Géologie :** bref résumé.

**Travaux :** bref résumé chronologique des travaux d'exploration, de mise en valeur et, le cas échéant, de production.

**Tonnages et teneurs :** catégorie d'estimation; tonnage et teneur ou données similaires; année de l'estimation ou de la réévaluation (soulignée); source des chiffres du tonnage et de la teneur (entre parenthèses).

**Remarques:** autres données sur le tonnage et la teneur; facteurs connus touchant l'exploitabilité; travaux en cours et projetés; autres données sur l'emplacement et des éléments d'information semblables.

La majeure partie des données retenues pour chaque gisement proviennent du Répertoire national des minéraux (RNM), du Secteur de la politique minérale. Ce répertoire fournit des renseignements complets sur quelque 21 000 indices minéralisés situés au Canada. Pour l'établir, le Secteur utilise divers documents, dont certains sont inédits.

L'information que nous avons recueillie pour chacun des gisements mentionnés dans cet ouvrage varie en quantité et en qualité. Pour certains gisements, elle est assez complète; pour d'autres, elle est pratiquement nulle. Nous nous sommes efforcés de consulter toutes les sources disponibles et de publier les chiffres les plus récents et les plus précis pour ce qui est des tonnages et des teneurs. Le lecteur devra se souvenir toutefois que ces chiffres ont été produits selon diverses normes d'estimation. Bien que ces chiffres soient utiles, il faudrait éviter de les comparer ou encore de les additionner afin d'obtenir une estimation des ressources totales d'une province.

En créant ce répertoire, nous nous sommes gardés de trop interpréter les chiffres afin de réduire le plus possible les biais. Nous présentons les données comprenant des catégories d'estimation des ressources, par exemple les ressources prouvées, mesurées, indiquées par forage ou spéculatives, telles qu'elles nous ont été fournies. Les chiffres sur les tonnages et les teneurs, notamment les données sur la dilution, les teneurs limites et la profondeur atteinte lors de l'estimation, ont été reproduits tels qu'ils apparaissaient dans la source disponible la plus complète et sans aucune conversion à un quelconque système de mesure. Nous avons également inclus les chiffres différents que nous avons trouvés dans d'autres sources fiables. Et nous donnons la référence, sous forme d'abréviation, de chacun des chiffres sur le tonnage et la teneur.

Les jugements ou les énoncés qui pourraient prêter à controverse sont groupés dans la colonne "Remarques". Ils n'appartiennent qu'aux auteurs du présent répertoire et ne reflètent aucunement la position ou la politique officielle du gouvernement.

Nous invitons les lecteurs à signaler au groupe chargé du RNM toute erreur ou omission qu'ils relèveraient dans la présente publication, afin que nous puissions améliorer ses éditions ultérieures ainsi que le RNM. Les lecteurs sont priés de faire parvenir leurs observations à l'adresse suivante :

Répertoire national des minéraux
Secteur de la politique minérale
Ministère de l'Énergie, des Mines et des Ressources
Ottawa (Ontario)
K1A 5H3
Téléphone : (613) 992-8205
Télécopieur : (613) 992-5893.

Le Répertoire national des minéraux comprend quelque 21 000 dossiers publics se rapportant à des indices minéralisés. Ces dossiers renferment une description beaucoup plus détaillée des gisements énumérés dans la présente publication ainsi que des données sur des milliers d'autres gisements et indices minéralisés situés au Canada. Le public peut obtenir des photocopies des dossiers du RNM moyennant une somme symbolique.

## ABBREVIATIONS

**Minerals, commodities and rocks:**

Asb - asbestos
asp - arsenopyrite
carb - carbonate
cp - chalcopyrite
dol - dolomite
dtm - diatomite
Fsp - fluorite
gal - galena
gnt - garnet
grp - graphite
gyp - gypsum
Kyn - kyanite
ls - limestone
mag - magnetite
Mo - molybdenum (tonnage & grade column)
mo - molybdenite
PGE - platinum group metals
pn - pentlandite
po - pyrrhotite
py - pyrite
qtz - quartz
qtzite - quartzite
REE - rare earth elements
sph - sphalerite
sulphs - sulphides
Trm - tremolite
Ver - vermiculite
VG - visible gold

**Other general abbreviations:**

avg - average
c - about
concn - concentrate(s)
dd - drill(ing)
ddh - drill hole(s)
dev - development
dil - dilution
dis, dissem - disseminated, disseminations
disc - discovery
est - estimate(d)
FW - footwall
g - gram(s)
g/mt or g/t - grams per metric ton
HW - hangingwall
ind - indicated
inf - inferred
int - interest
Kt - kilotonnes
L - level
lt - long tons[1]
meas - measured
mng - mining
mnrl'n, mnrlz'n - mineralization
ms, mass - massive
mt - metric tons
Mmt - million metric tons
Mt - million short tons
MT/VM, T/VM - metric tons per vertical metre
OB - overburden
OBd - overburden drilling
o/p - open pit
ops - operations
poss - possible
prob - probabl-e, y
prov - proven
pot - potential
rad - radiometric
res - resistivity survey
spec - speculative
str, strip - stripping
t - short ton(s)[2]
Tr - trenching
T/VF - short tons per vertical foot
u/g - underground
w - width, wide
w/o - without

**Reference components** (given in brackets after tonnage-grade figures):

AF - Assessment File
AL - Application for Listing
Ann Mtg - Annual Meeting
APQ CA - Association des Prospecteurs du Québec, Congrès Annuel
AR - Annual Report
ASE - Alberta Stock Exchange
Asmt Rept - Assessment Report
BC - British Columbia Ministry of Energy, Mines and Petroleum Resources (prefix)

| | |
|---|---|
| BC EXPL | BC Exploration in British Columbia |
| BC GEM | BC Geology, Exploration and Mining |
| BC GF | BC Geological Fieldwork |
| BCI | BC Mineral Deposit Inventory |
| BC RD | BC Published Reserves Data |
| BC RMM | BC Reports of Minister of Mines |
| Bull | Bulletin |
| CANMET | Canada Centre for Mineral and Energy Technology |
| CANMET IR | CANMET Investigation Report |
| CANMET IMR | CANMET Industrial Minerals Report |
| CIM | Canadian Institute of Mining and Metallurgy (prefix) |
| CIM Spec Vol | CIM Special Volume |
| CIM Str Geol | CIM Structural Geology of Canadian Ore Deposits (Special Volume) |
| CIM Trans | CIM Transactions |
| CJES | Canadian Journal of Earth Sciences |
| CL | Company Limited |
| CMH | Canadian Mines Handbook |
| CMJ | Canadian Mining Journal |
| Co | Company |
| CSE | Canadian Stock Exchange (prefix) |
| DIAND | Canada Dept. of Indian and Northern Affairs (prefix) |
| DIAND EGS | DIAND Economic Geology Series |
| DIAND EO | DIAND Exploration Overview |
| DIAND MIR | DIAND Mineral Industry Report |
| DIAND NM | DIAND Northern Mineral Policy Series |
| DIAND YE | DIAND Yukon Exploration |
| DIAND YEG | DIAND Yukon Exploration and Geology |
| EMJ | Engineering and Mining Journal |
| EMR | Canada Dept. of Energy, Mines & Resources (prefix) |
| FP | The Financial Post |
| FP Corp Serv | FP Corporation Service |
| FP Surv Ms | FP Survey of Mines |
| FR | Financial Record |
| FS | Filing Statement |
| GAC | Geological Association of Canada |
| GCNL | George Cross Newsletter |
| G&M | Globe & Mail |
| GML | Gold Mines Limited |
| GR | Geological Report |
| GSC | Geological Survey of Canada (prefix) |
| GSC EG | GSC Economic Geology Report or Series |
| GSC Mem | GSC Memoir |
| GSC P | GSC Paper |
| IGC | International Geological Congress |
| Inv | Mineral Inventory |
| List Stat or LS | Listing Statement |
| Man | Manitoba Ministry of Energy and Mines incl. predecessor depts. (prefix) |
| Man ES | Man Educational Series |
| Man GP | Man Geology Paper |
| Man Publ | Man Publication |
| ME | Montreal Exchange |
| MPS | Mineral Policy Sector incl. predecessors (prefix) |
| MPS MR | MPS, Mineral Report |
| MPS NMI | MPS, National Mineral Inventory |
| MPS RF | MPS, Technical Records File |
| MSE | Montreal Stock Exchange (prefix) |
| NB | New Brunswick Dept. of Natural Resources and Energy or predecessor (prefix) |
| NB Info Circ | NB Information Circular |
| NB CMOD | NB computerized mineral occurrence database |
| Nfld | Newfoundland Dept. of Mines or predecessor dept (prefix) |
| Nfld Info Circ | Nfld Information Circular |
| Nfld MODS | Nfld Mineral Occurrence Data System |
| NS | Nova Scotia Dept. of Mines and Energy, or predecessor (prefix) |
| NS Mnrl File | NS mineral file |
| NM | The Northern Miner |
| OFR | Open File Report |
| Ont | Ontario Geological Survey or its predecessors (prefix) |
| Ont IMR | Ont Industrial Mineral Report |
| Ont MDC | Ont Mineral Deposit Circular |
| Ont MP | Ont Miscellaneous Paper |
| Ont MRC | Ont Mineral Resources Circular |
| Ont SMDR | Ont Source Mineral Deposit Record |
| PR | Preliminary Report |
| pt | part |
| Que | Ministère de l'Energie et des Ressources du Québec and predecessor depts. (prefix) |

| | |
|---|---|
| Que DP, DV or DPV | Que Document Publique, incl. Varia |
| Que ES | Que Etude Spéciale |
| Que Fiche | Que Fiche de Gîte |
| Que GM | Que Gîtes Minéraux (series) |
| Que GR | Que Geological Report (in English) |
| Que MB | Que Manuscrit Brut |
| Que MIQ | Que Mining Industry in Quebec or predecessor (English or bilingual) |
| Que PR | Que Preliminary Report (in English) |
| Que RP | Que Rapport Préliminaire |
| Que SP | Que Special Paper (in English) |
| Que TT | Que Tableaux des Tonnages et des Teneurs |
| Rept | Report |
| Sask | Saskatchewan Ministry of Energy and Mines or predecessor (prefix) |
| SMDI | Sask Mineral Deposit Index |
| SMF | Statement of Material Facts |
| SP | Special Paper |
| Synd | Syndicate |
| TSE | Toronto Stock Exchange |
| VSE | Vancouver Stock Exchange |
| WCMN | Western Canada Mining News |
| WM | Western Miner |

**Short-form presentation** (examples):

250-500,000 – 250,000 - 500,000 short tons

70,000 Asb - 70,000 short tons of asbestos-bearing material

---

[1] Some figures shown without this symbol may represent long tons (e.g. for Fe-Ti deposits), the symbol having been left out if long tons were not specified in the source. [2] Short ton figures are usually given without any identifying symbol.

# NEWFOUNDLAND

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NFLD. 1 | DIRECTOR MINE<br>St. Lawrence Fluorspar L (in 1986)<br>1 L/14<br>46•54'24" 55•25'04" | The deposit is located on a fluorite vein which has a strike length of over 2 km and varies in width from 0.3–30 m. The vein lies within the St. Lawrence granite. The gangue minerals are qtz, calcite, barite, cp, sph and gal. | **1937**: discovery; two shafts.<br>**1939**: prod commenced.<br>**1939–41**: prod figures N/A.<br>**1941–53**: prod approx 500 000 mt.<br>**1953–77**: prod figures N/A.<br>**1977**: prod ceased. | 1.95 million proven, 280,000 prob, 310,000 poss, at c 70% $CaF_2$ (Nfld MODS I L/14 Fl 009, 1986) | Fluorspar ore is mined nearby at the Tarefare vein open pit and Blue Beach North u/g mine. |
| NFLD. 2 | FORTUNE<br>Crown Land (in 1987)<br>1 M/4<br>47•00'08" 55•53'11" | Late Hadrynian/Early Cambrian white qtzite of the Random Fm. | **1927**: investigated.<br>**1948**: geol mapping.<br>**1965–66**: chip sampling, dd.<br>**1977**: coastal section mapped. | 8,036,020 at 96.37% $SiO_2$, 1.52% $Al_2O_3$, 0.49% $Fe_2O_3$ ***1967*** (Nfld MODS 1 M/4 Sia 1, 1987) | Several deposits have been noted. Sampling complete only on deposit No 1. |
| NFLD. 3 | ACKLEY CITY<br>Crown Land (in 1985)<br>1 M/11<br>47•41'36" 55•12'26" | 42 m long x 12 m wide embayment of granite in felsic volcanics. Molybdenite occurs as dissemination and fracture fillings in silicified pegmatite, f.g. granite and aplite. | **1892**: discovery.<br>**1926**: sampling.<br>**1935–38**: geol mapping, adit, shaft sinking, u/g work.<br>**1943**: dd. | Proven: 58,955 at over 0.6% $MoS_2$ (Nfld MODS 1 M/11 Mo 2, 1985) | Crown land. |
| NFLD. 4 | GARRISON HILLS<br>Crown Land (in 1985)<br>1 M/12<br>47•42'16" 55•45'05" | Qtz body is a half moon shaped hill 580 m long, 150 m wide and stands 51 m above the surrounding granite and gneiss. It consists entirely of qtz and feldspar. | **1965**: sampling. | 1 Mt $SiO_2$ at unstated grade in qtz zone plus 109 000 mt in feldspar zone ***1965*** (Nfld MODS IM/12 Sia 1, 1985) | Average of 36 chip samples: 96.6% $SiO_2$ 2.2% $Al_2O_3$; 0.4% $Fe_2O_3$. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NFLD. 5 | SILVER CLIFF<br>Crown Land since 1983<br>1 N/5<br>47°18'05" 53°56'39" | Two pinch and swell veins in a fault zone cutting Late Precambrian Bull Arm Fm volcanics and volcaniclastics. Vein mineralogy consists of a mixture of gal, sph and py with minor cp, qtz, manganiferous carbonate and barite. | **1882–98**: mined intermittently.<br>**1922–25**: approx. 2,000 tons mined. Several hundred tons of concentrate were shipped.<br>**1970–71**: geochem survey.<br>**1973**: VLF–EM survey. | N/A Pb–Zn–Cu–Ag–Au<br>(Nfld MODS 1 N/5 Pb 3, 1983) | Selected McKay vein samples: 23.2% to 61.2% Pb; 0.5-20 oz/t Ag; 0.161 oz/t Au.<br>Abandoned mine workings include a drift, a shaft and exploratory workings. |
| NFLD. 6 | MANUELS–KELLIGREWS<br>Victor Dawe (in 1985)<br>1 N/6<br>47°29'13" 53°00'46" | Manganiferous sediments of basal Middle Cambrian age. The manganese–rich zone consists of grey to pink rhodochrosite nodules, lenticles and bands over 1 m thick. | **1909**: surf exploration.<br>**1910**: 80' adit, stripping and test pits.<br>**1942**: 6 ddhs, test pits. | 10,000,000 Mn, grade unstated<br>(R Wiseman 1942, Nfld unpubl rept) | Between Manuels and Kelligrews. 3 samples over 5.8'; 7.8'; 13.4' contained 11.55%, 10.73%, 8.29% Mn. |
| NFLD. 7 | BRIGUS (SOUTH POINT)<br>Crown land (in 1983)<br>1 N/11<br>47°32'02" 53°10'59" | The higher grade manganese is concentrated in a 4.5' thick bed in a 15' manganiferous zone at the base of the Middle Cambrian strata. Within the manganese bed are two massive beds: an upper medium–grade ore and lower high–grade ore. | **Pre–1914**: test pits.<br>**1920**: 160 tons of 37% Mn shipped.<br>**1940–41**: sampling, trenching, stripping.<br>**1943**: metallurgical testing.<br>**1951**: sampling. | 24,000 tons at 8.4% Mn over 300' × 150'<br>(Nfld MODS 1 N/11 Mn 1, 1983) | Highest grade beds: 17.2% and 39.9% $MnO_2$. |
| NFLD. 8 | COLLIER POINT<br>Gibbs & Jones<br>(in 1983)<br>1 N/12<br>47°35'28" 53°41'24" | Coarse-bladed barite in a vein cutting Precambrian arkose. | **1902–04**: prod 5,000 tons, shaft 40', 100' drift.<br>**1951**: feasibility study.<br>**1980**: prod of 19,000 tons. | <30,000 tons, grade unstated<br>(Nfld MODS 1 N/2 Ba 1, 1983) | Grab samples incl 90% $BaSO_4$ and up to 6.5% $SrSO_4$<br>(Nfld MODS 1 N/12 Ba 1, 1983). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NFLD. 9 | LA MANCHE<br>Albert Chislett<br>(in 1982)<br>1 N/12<br>47°41'20" 53°56'20" | Gal, with minor sph, cp, py, ba occur in a calcite vein. It cuts Precambrian slate of the Connecting Point Gp and has been traced for 3,100', thickness to 7' and a depth of 200'. | **c 1855**: discovery.<br>**1857, 1863–1887**: prod of 3,500 tons at 11–12% Pb to 1873, prod ceased 1887.<br>**1927**: shaft sinking.<br>**1929**: shaft to 390', drifting.<br>**1946–1950**: u/g work, dd, sampling. | 218,000 at 12% Pb ***1935***<br>(Nfld MODS 1 N/12 Pb 1, 1982) |  |
| NFLD. 10 | FIRST POND (GANDER RIVER – 2)<br>N.R.M. Minerals<br>2 E/2<br>49°11'01" 54°30'21" | Lens–like masses of impure magnesite in Middle Cambrian to Lower Ordovician ultramafic rocks of the Gander River ultramafic belt. Bodies are from hundreds of feet to over 1,000' long and from 60' to 200' wide. Gangue mnrls include qtz, hydrous silicates, and serpentine inclusions. | **1951**: mag survey.<br>**1954**: discovery.<br>**1975**: airborne EM, mag survey, mapping, prospecting, dd. | 10 Mt Mg, grade unstated ***c 1957***<br>(Nfld MODS 2 E/2 Mg 2, 1979) | Area of 450,000 sq yds, 30' deep. Chemical analyses:<br>High Low<br>MgO 41.20 26.60<br>CaO 0.06 0.05<br>$Al_2O_3$ 1.55 0.52<br>$Fe_2O_3$ 8.00 7.5<br>$SiO_2$ 46.96 21.40 |
| NFLD. 11 | WEIR'S BROOK<br>N.R.M. Minerals Inc<br>2 E/2<br>49°10'03" 54°31'17" | Magnesite occurs in association with serpentinite; both are alteration product of pyroxenite. The magnesite has a distinctive rusty brown colour and forms several of the low hills along the Gander River Ophiolite Complex. Qtz veining is generally common and locally the magnesite is well foliated. Chromite is a common accessory and occurs as dis crystals and vein–like lenticular masses. | **pre–1954**: geol mapping.<br>**1974–75**: airborne EM and mag survey, mapping, prospecting, and dd.<br>**1978**: geol mapping. | > 10 Mt magnesite at an unspecified grade<br>(Nfld MODS 2 E/2 Mg 1, 1988) | Analyses which have been made so far, indicate:<br>High Low<br>MgO 41.20 26.60<br>CaO 0.06 0.05<br>$Al_2O_3$ 1.55 0.52<br>$Fe_2O_3$ 8.00 7.10<br>$SiO_2$ 46.96 21.40 |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 12 | POINT LEAMINGTON DEPOSIT<br>Noranda Expln CL<br>2 E/5<br>49•16'36" 55•37'53" | Massive sulphides having a strike length of 1,700' and max width of 200' in Ordovician felsic volcanics. A bulk sample averaged 0.79% Cu; 0.58% Zn: 0.38% As with lesser Co, Sb, Pb, Bi, Ni, Ag, and Au. Metallic mnrls incl extremely fine grained py, cp and sph. | **1950**: prospecting by Falconbridge.<br>**1970**: geol, geophs, geochem surveys.<br>**1971**: dd, discovery.<br>**1972**: airborne EM, ground geoph, geochem surveys, tr, test pitting, dd.<br>**1973**: dd. | >18 000 000 mt at 0.5% Cu, 2% Zn<br>(Nfld Report 84–3) | Diamond drilled along entire strike length and to vertical depth of about 300 m. Largest single sulphide body discovered to date in Nfld. |
| NFLD. 13 | LOCKPORT MINE<br>Tillicum Resources L<br>(in 1982)<br>2 E/6<br>49•27'18" 55•29'53" | Volcanogenic dis to ms sulphs hosted by Lower to Middle Ordovician volcanic rocks. Mainly py, cp, sph, gal, bornite, some azurite occur as layers and lenses. Main A zone, 100 m long, 75 m wide. Au and Ag in trace amounts.<br>Zone B – 610 m long, 90 m wide.<br>Zone C – 90 m long, 15 m wide. | **1870s–1880s**: discovery, trenching.<br>**1953**: geol mapping.<br>**1957**: geol mapping, SP, vert loop EM, 1143 m dd.<br>**1962**: geochem.<br>**1965**: geol surveys, geochem, geophysics.<br>**1968**: 3 ddh.<br>**1969**: geol surveys.<br>**1970**: dd.<br>**1977–78**: geochem, EM. | ***Zone A***: Est: 242,500 at 1.21% Zn in Zn zone ***plus*** 432,500 at 0.75% Cu in 3 copper zones (Nfld MODS, 2 E/6, Cu 3, 1982) | In A zone are an upper Zn zone and 3 lower copper zones. The site of six large open cuts and several shafts. |
| NFLD. 14 | MILES COVE MINE<br>10019 Nfld L<br>(in 1988)<br>2 E/12<br>49•32'22" 55•47'26" | Sulphs as dis, blebs, ms bands and stringers in en échelon tabular and lensoidal shoots in Cambrian and/or Ordovician chlorite schist. Metallic mnrls include py, cp, mag with minor Au, Ag and qtz. Dd ind a zone 76 m long, avg 7 m wide, and steeply dipping. | **1983**: 3 shafts, u/g work.<br>**1898-99**: 190 mt Cu ore mined.<br>**1935**: geophysics.<br>**1956**: SP, mag, 13 ddh.<br>**1963-65**: geochem, SP, mag & EM surveys.<br>**1967**: 8 ddh.<br>**1977–78**: geol, geoph. | 142,000 at 1.55% Cu, 0.01 oz/t Au, 0.35 oz/t Ag ***1957***<br>(Nfld. MODS, 2 E/12, Cu 12, 1988) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NFLD. 15 | PILLEYS ISLAND MINE<br>Goodfellow and Smith (in 1979)<br>2 E/12<br>49°30'31" 55°43'07" | Two distinct mineralized zones occur in sheared rhyolites of the Upper Ordovician to Silurian Roberts Arm Gp. Each zone consists of irregular, pod-like dis to ms sulph bodies with lengths of 600' to 1,000', and thickness up to 40'. Mrls incl py, cp, minor sph and gal. Sulphide mineralization is truncated at depth by a fault. | **1875**: discovery.<br>**1891–99**: prod of 300,000 tons.<br>**1901-08**: prod of 225,000 tons.<br>**1919–20**: dd.<br>**1951–52, 56**: dd.<br>**1959**: re-evaluation.<br>**1966–68**: stripping, dd.<br>**1970**: soil sampling.<br>**1973–77**: dd. | Poss: >500,000, Cu grade unstated ***1976***<br>(Nfld MODS 2 E/12 Cu 1, 1979) | Ore of 2 types:<br>1) brown lump pyritic<br>2) hard copper lump 2%–3% Cu. |
| NFLD. 16 | BETTS COVE MINE<br>Bitech Corp<br>2 E/13<br>49°48'46" 55°48'23" | Disseminated to massive sulphides with low Au and Ag values. Some cp in qtz lenses, rare gal. Mineralization occurs in altered pillow lavas near contact with sheeted dikes of the Ordovician Snooks Arm Gp. Py, cp, sph (with low Au and Ag values) occur as stringer stockworks, disseminations and lensoidal stratiform m.s. | **1875**: mine opened.<br>**1877**: smelting works.<br>**1875–86**: 116,412 tons of 10% Cu shipped.<br>**1900**: 450' tunnel.<br>**1952–53**: geol, EM.<br>**1955**: *8 ddh – 1079 m.*<br>**1974**: airborne EM.<br>**1989**: geoph, soil geochem mapping, tr, sampling. | N/A Au–Cu–Zn | Three ore dumps of unknown quantity. Grab samples from dump 4.14–5.06% Zn; 0.39–1.63% Cu; values in Au, Ag. Ops suspended in 1886 due to cave in.<br>(Nfld MODS 2 E/13 Cu 2, 2 E/13 Zn 4, 2 E/13 Zn 5, 1979) |
| NFLD. 17 | LA SCIE QUARTZ VEIN<br>Crown Land (in 1982)<br>2 E/13<br>49°58'04" 55°35'40" | The area is underlain by silicic, intermediate and basic volcanics of the Lower Silurian and older Cape St. John Group which is intruded by Carboniferous and older La Scie granite. The vein outcrops for 1200 m and is about 45 m thick. | **1958**: discovery.<br>**1974–75**: dd, sampling. | Ind: 824,000 tons at 98.0% $SiO_2$, 1.2% $Al_2O_3$, 0.33% total Fe ***1976***<br>(Nfld MODS 2 E/13 Sia 1, 1982) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 18 | NUGGET POND<br>Bitech Corp,<br>Equity Silver ML<br>2 E/13<br>49°50'10" 55°46'32" | The Nugget pond area is underlain by the Lower Ordovician Snooks Arm Group which consists of a basal ophiolite suite that comprises ultramafic rocks, gabbro sheeted dykes, sediments and pillow lava.<br>The mineralization consists of disseminated pyrite hosted by a siliceous sedimentary rock at the top of a pillowed mafic volcanic sequence. | **1987**: Au discovery, geochem, dd, by Bitech.<br>**1988-89**: dd. | Geol res: 505 000 mt at 12 g/t Au ***1989***<br>(NM 4/9/89) | Bitech plans an u/g expl program – shaft sinking, level development, dd and metallurgical testing as a prelude to a feasibility study. |
| NFLD. 19 | CAPE RAY<br>Dolphin Expln L,<br>New Ventures Equities<br>11 O/10, 15<br>47°45'06" 58°56'13" | Deposit occurs within the Cape Ray Fault Zone and consists of a series of sulphide bearing qtz veins contained within graphite–chlorite schistsof the Upper Devonian Windsor Point Group. | **1969**: disc by Brinex.<br>**1975**: geoph survey, mapping, sampling.<br>**1976**: AMAX option.<br>**1977–80**: Riocanex option, mapping, ddh, No 4, No 41, No 51 zones and Windowglass Hill showing outlined.<br>**1984**: u/g dev.<br>**1989**: a $4 million expl program started to delineate additional reserves on the Nos. 4 and 51 gold zones. | 750 000 mt at 9 g/t Au in zones 4, 41 and 51 ***1983***<br>(Nfld MODS 110/15 Au 3) | Dolphin plans to proceed with the final feasibility study before the end of 1989. |
| NFLD. 20 | DIAMOND COVE<br>Luke Chafe (in 1984)<br>Fee Simple Mining Grant<br>11 O/10<br>47°36'50" 58°42'24" | Qtz vein is exposed over a strike length of 420 m and has an average width of 40 m. It consists of massive, medium to coarse white qtz with minor amounts of chalcedony hosted by carbonaceous slates and qtzites of Mid–Paleozoic age. | **1899**: reported.<br>**1935**: mapped.<br>**1943**: mapping, sampling.<br>**1964**: examination by Nfld.<br>**1966**: chip sampling.<br>**1968**: trenching. | c 1 Mt at 96.5% $SiO_2$, 0.38% $Fe_2O_3$, 0.37% $Al_2O_3$, <0.2% MgO and <0.01% CaO<br>(Nfld MODS 11 O/10 Sia 1, 1984) | The silica grade could be improved by beneficiation. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 21 | STRICKLAND PROSPECTS<br>Alex Strickland<br>(in 1984)<br>11 O/16<br>47°48'29" 58°18'00"<br>(Main Zone) | The main zone comprises a massive sphalerite–galena–pyrite argentiferous mineralized zone conformably contained within a section of NE striking SE dipping felsic pyroclastic rocks at the contact with overlying sedimentary rocks. Both are part of the Ordovician Bay du Nord Group. Mineralization consists of two zones of Fe–Pb–Zn (minor Cu) sulphides. | **1936**: discovery.<br>**1937**: dd, tr.<br>**1967–68**: airborne and ground EM surveys.<br>**1968–69**: dd.<br>**1977–80**: dd, soil sampling, geoph, lake sediment survey, sampling of old trenches, rock geochem.<br>**1981**: dd. | ***(i) Main Zone***: 260 000 mt at 5.25% Pb and Zn and 195 g/t Ag ***1981***<br>***(ii) North Zone***: 750 000 mt of 2% Pb–Zn ***1981***<br>(Nfld MODS 110/16 Zn 1, Zn 2, 1984) | Main zone lens is 300 m x 2 m x 150 m deep.<br>North zone was drilled over 400 m x 4 m to a max 300 m depth. |
| NFLD. 22 | GREY RIVER TUNGSTEN<br>Geddes Res L<br>11 P/11<br>47°35'36" 57°06'12" | Wolframite and minor scheelite in qtz veins. Vein system traced for about 5000' on surface. A 2,000' section avg about 1% $WO_3$ over 3'. A second zone is 900' long. Other metallic mnrls incl py, mo, py, bismuthinite, bismuth and marcasite. | **1955**: discovery.<br>**1956–59**: tr, geochem.<br>**1959–60**: geochem.<br>**1965**: dd.<br>**1967–69**: 5,271' adit, dd. | Assured plus prob: 360,000; poss: 160,000; at 1.09% $WO_3$<br>(Nfld MODS 11 P/11 WO 1, 1985) | Veins #6 and #10 are considered to have economic potential. |
| NFLD. 23 | GULCH COVE<br>Noranda Expln CL<br>(in 1987)<br>11 P/11<br>47°35'40" 57°00'07" | Ordovician ? qtzite exposed over a distance of 1 mi and thickness 200'–600'. Minor mica and mag. | **1957**: mapped by ASARCO<br>**1967**: feasibility study.<br>**1967–68**: geol map; dd.<br>**1972**: benefication tests. | 12 Mt at 95.5% $SiO_2$, 1.9% $Al_2O_3$ ***1976***<br>(Nfld MODS 11 P/11 Sia 1, 1987) |  |
| NFLD. 24 | GREAT BURNT LAKE DEPOSIT<br>BP Res Can L<br>12 A/8<br>48°20'19" 56°09'06" | Deposit is a roughly tabular, conformable body of massive pyrite, pyrrhotite, chalcopyrite, sphalerite mineralization with a footwall stockwork. Deposit lies at contact between tholeiitic basalt and overlying greywacke. | **1957–58**: geoph, geochem.<br>**1966**: discovery, geochem, geoph, dd.<br>**1967–71**: dd, geochem, SP, Mag, EM. | 796 500 mt at 2.4% Cu (10% dil) ***1972***<br>(Nfld MODS 12 A/8 Cu 1, 1982) | Property is located near the eastern shore of Great Burnt Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NFLD. 25 | SOUTH POND PROSPECT<br>BP Res Can L<br>12 A/8<br>48°25'36" 56°08'23" | Py, po, cp, asp as diss and stringers in intermediate volcanics. | **1950**: discovery.<br>**1951–53**: dd (11 – 5,773').<br>**1956–58**: geoph, geochem.<br>**1964**: geochem, dd.<br>**1968–79**: geoph, geochem, dd. | Ind: 293 000 mt at 1.33% Cu ***1972***<br>(Nfld MODS 12 A/8 Cu 2, 1982) | Property is located approx 10 km N of the Great Burnt Lake deposit. |
| NFLD. 26 | DUCK POND<br>Noranda Expln CL (60%),<br>BP Res Can L (40%)<br>12 A/9<br>48°38'04" 56°29'16" | The mineralization occurs within the Tally Pond volcanics, part of Victoria Lake group of Middle Ordovician age. The Tally Pond volcanics form a 100 km long, narrow belt of massive to pillow basalt with lesser amounts of felsic pyroclastics and flow sheets. The mineralization consists of disseminated pyrite and pyrrhotite with minor chalcopyrite, galena and sphalerite. | **1871**: reported.<br>**1928**: geol mapping.<br>**1966–69**: airborne EM, ground geoph, geochem, 27 dd.<br>**1974–76**: geochem, geoph, dd, tr.<br>**1975–78**: detailed mapping.<br>**1978–79**: airborne EM, geol, geoph surveys, dd.<br>**1980**: geol survey, till sampling.<br>**1982**: dd.<br>**1986**: Duck Pond Main Zone discovery.<br>**1987**: Tally Pond located. | (i) Main Zone: 3.7 Mmt at 3.6% Cu, 7.0% Zn, 70.4 g/t Ag 1988<br>(Noranda Annual Information Form 1988, p 9)<br>(ii) Tally Pond Zone: 160 000 mt at 3.27% Cu, 2.62% Zn, 90.00 g/t Ag and 0.29 g/t Au ***1989***<br>(Nfld MODS 12 A/9 Cu 10, 1989) | Tally Pond zone is located stratigraphically below the Main zone. |
| NFLD. 27 | BOUNDARY DEPOSIT<br>Noranda Expln CL<br>12 A/9<br>48°39'22" 56°26'47" | Eroded massive sulphs with underlying stockwork hosted by coarse felsic volcanic breccia. Mineralogy consists of py, cp, sph, gal. | **1871–72**: sulphs reported.<br>**1966–69**: airborne EM.<br>**1974–76**: prospecting, geol and geochem.<br>**1977–79**: airborne EM.<br>**1980–81**: discovery, exploration. | 500 000 mt at 3.5% Cu, 4% Zn, 1.0% Pb, 34 g/t Ag ***1989***<br>(Nfld MODS 12 A/9 Cu 5, 1989) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 28 | JACKS POND<br>BP Res Can L<br>12 A/10<br>48°32'21" 56°58'59" | The deposit consists of four lenses of massive to heavily disseminated sulphides (dominantly pyrite) hosted by variably altered felsic pyroclastics and minor flows of the Middle Ordovician Tulks Hill volcanics–Victoria Lake Gp. | **1980–81**: airborne EM, VLF, dd, discovery. | Four lenses (200,000 to 1,000,000 each) at <1% Cu ***1982***<br>(Nfld MODS 12 A/10, Cu 1, 1985) |  |
| NFLD. 29 | SKIDDER PROSPECT<br>BP Res Can L<br>12 A/10<br>48°42'23" 56°56'07" | Stratiform ms sulphs, including sp–gal–py–cp. Deposit lies at the top of a thick pile of intermixed felsic volcanic and volcaniclastic rocks. Mineralized horizon can be traced for several km along strike and hosts several other minor prospects. | **1970**: discovery, geoph.<br>**1971**: geochem, dd. | 900 000 mt at 2% Cu, 2% Zn ***1989***<br>(Nfld MODS 12 A/10 Cu 4, 1989) | Property is 10 km S of Buchans. |
| NFLD. 30 | VICTORIA MINE<br>BP Res Can L<br>12 A/10<br>48°44'21" 56°42'17" | Massive sulphide and stockwork associated with felsic volcanics of the Middle Ordovician Victoria Lake Gp. Mineralogy consists of py–cp–sph–gal. Py–cp in chloritic stockwork; sph–gal associated with dolomitic alteration. | **1905 (?)**: discovery. Three shafts were sunk during the early expl work. The prospect has been explored since by a number of mining companies by geochem, geoph, and geol surveys and 31 ddh. | Low tonnage at <10% Cu and <3% Pb–Zn<br>(Nfld MODS 12 A/10 Cu 3, 1985) | Three small surface deposits have been located to date. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 31 | TULK'S EAST<br>BP Res Can L<br>12 A/11<br>48°32'15" 57°07'54" | Three discrete massive sulphide lenses. The zones are steeply dipping tabular to lensoid massive sulphide bodies hosted by felsic volcanic rocks of the Middle Ordovician Victoria Lake Group.<br>Mnrls: py, sph, gal, cp and up to 10% qtz, chlorite and calcite gangue. | **1977–80**: geochem, airborne, VLF gravity surveys, dd, discovery. | ***(i) A–zone***: 5 million mt at 1.5% Zn, 0.12% Pb, 0.24% Cu, 8.5 g/t Ag, traces Au<br>***(ii) B–zone***: 230 000 mt at 8.69% Zn, 1.26% Pb, 0.66% Cu, 58.7 g/t Ag, 0.14 g/t Au<br>(Nfld MODS 12 A/11 Zn 2, 1985)<br>***(iii) C–zone***: 1 million at <1% Zn–Pb–Cu<br>(Nfld MODS 12 A/11 Zn 3, 1985) |  |
| NFLD. 32 | TULK'S PROSPECT<br>BP Res Can L<br>12 A/11<br>48°30'53" 57°12'07" | Four stratiform massive to disseminated sulphide zones in sericitic felsic volcanics of Ordovician age. Mineralogy: py–sph–gal–cp–tetrahedrite–po–asp. Zones 500'–900' long; 25'–45' wide. | **1930**: noted.<br>**1961–67**: geochem, geoph, dd.<br>**1977**: dd.<br>**1980**: dd, drifting. | 720 000 mt at 5.6% Zn, 2% Pb, 1.3% Cu, 0.4 g/t Au<br>(Nfld MODS 12 A/11 Zn 1, 1985) |  |
| NFLD. 33 | CLEMENTINE PROSPECT<br>BP Res Can L<br>12 A/15<br>48°50'43" 56°55'06" | Py–cp–sph–gal–barite massive sulphide hosted by Ordovician Silurian Buchans Group pyroclastics. The ore horizon sequence is underlain by andesitic tuffs and breccias and is overlain by a sequence of basaltic pyroclastic rocks and lava flows. | **1960**: disc by dd. | 363 000 mt at 4.9% Zn, 2.6% Pb, 0.3% Cu and 10.3 g/mt Ag ***1976***<br>(Nfld MODS 12 A/15, Zn 6, 1985) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 34 | LITTLE SANDY PROSPECT<br>BP Res Can L<br>12 A/15<br>48°48'51" 56°39'54" | The prospect occurs in Ordovician/Silurian Upper Buchans subgroup felsic–to–intermediate volcanic breccias and tuffs. Volcanogenic mnrlz'n consists predominantly of py, cp, sph. | **1979**: geol mapping. | Maximum visible tonnage 100,000 at 1.5% Cu (Nfld MODS 12 A/15 Cu 1, 1983) |  |
| NFLD. 35 | SANDFILL PROSPECT<br>BP Res Can L<br>12 A/15<br>48°50'09" 56°49'48" | The Sandfill Prospect massive sulphide occurs in the Ordovician–Silurian Buchans group. The deposit occurs in the Oriental ore horizon sequence, a complex assemblage of felsic volcanics and sedimentary rocks. | **1950–60**: discovered by systematic dd carried out by Asarco in the Buchans area. | 80,000 at 9.2% Zn, 4.8% Pb, 1.4% Cu, 2.5 oz/t Ag, 0.02 oz/t Au ***1971*** (Nfld MODS 12 A/15 Zn 11, 1985) |  |
| NFLD. 36 | FISCHELLS BROOK<br>Flintkote Hldgs L<br>12 B/7<br>48°18'25" 58°40'45" | The deposit consists of both anhydrite and gypsum. High–grade white gypsum is found in a 500 m wide x 900 m long zone. Mineralization is thought to represent a basal evaporite of the Carboniferous Codroy Gp. | **1947**: dd.<br>**1954**: geol mapping.<br>**1971, 86**: dd.<br>**1986**: dd. | 20,000,000 t of good quality gypsum (Nfld MODS 12 B/7 Gyp 3, 1987) |  |
| NFLD. 37 | PLASTER POND<br>Flintkote Hldgs L<br>12 B/7<br>48°17'05" 58°42'40" | 10 m high, 90 m wide and 300 m long block of gypsum belonging to the Carboniferous Codroy Gp. | **1947**: dd.<br>**1954**: geol mapping.<br>**1971**: dd. | 525,000 gyp, grade unstated ***1949*** (Nfld MODS 12 B/7 Gyp 2, 1987) | Gypsum of excellent grade and relatively free of sinks. |
| NFLD. 38 | ROMAINES BROOK<br>Flintkote Hldgs L<br>(in 1977)<br>12 B/10<br>48°33'20" 58°40'00" | Carboniferous Codroy Gp gypsum. The main body is 610 m x 366 m x 85 m thick with gangue minerals of anhydrite, calcite and dolomite. | **1926**: disc, test pits, tunnels .<br>**1955**: dd.<br>**1970**: dd. | 2 025 000 mt at 90% gyp (Nfld MODS 12 B/10 Gyp 1, 1983) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 39 | RONAN DEPOSIT<br>Gibbs and Jones<br>(in 1988)<br>(Fee Simple)<br>12 B/10<br>48•33'39" 58•48'58" | Wedge shaped mass of celestite, barite, aragonite and calcite in Carboniferous limestone of the Codroy Gp. Deposit dimensions: 107 m long x 76 m wide x 7.5 m avg thickness. | **1923**: disc, 7 pits.<br>**1942–43**: dd, tr, pitting.<br>**1972**: tr, grid- cutting soil and bulk sampling, geol mapping, dd. | 135 000 at 35% $BaSO_4$ and 25% $SrSO_4$ (Nfld MODS 12 B/10 Sr 1, 1988) | Work on property was performed by Nfld government. The largest of the known barite–celestite deposits. The area between Boswarlos and Piccadilly has excellent potential for additional deposits . |
| NFLD. 40 | LEWIS BROOK MINE<br>Crown Land since 1981<br>12 B/15<br>48•46'15" 58•33'56" | Asbestos occurs in serpentinized peridotites and dunites of the Early Ordovician Lewis Hills Massif of the Bay of Islands Ophiolite complex. It is also found in association with crosscutting troctolite dikes and at the contacts between peridotite and gabbro. The asbestos is greenish silvery in colour with silky lustre and is very soft and flexible. A stripped area (100 m x 3 m) contains 50% fibre that can be traced for 15 m along strike. | **1973**: first reported.<br>**1943**: dd.<br>**1946–47**: dd, adits (57 m & 131 m).<br>**1951–52**: u/g work.<br>**1954–55**: some u/g work.<br>**1957**: detailed geol mapping, prospecting. | 112,000 tons asb, grade unstated ***1951*** (Nfld MODS 12 B/15 Asb 1, 1981) | The chrysotile asbestos is of excellent quality. |
| NFLD. 41 | CHROME POINT<br>Corona Corp<br>12 B/16<br>48•46'35" 58•26'09" | Chromite masses as lenses, and veins in dunite and peridotite of the early Ordovician Lewis Hills Massif of the Bay of Islands Ophiolite Complex. Masses from 0.5" to 3' wide and a few inches to 18' long in a zone 750' long. | **1899**: discovery.<br>**1901**: tr.<br>**1940–41**: tr.<br>**1961**: geol mapping, sampling, SP, mag, grav surveys. | Inf: 10,000 at 25%–30% $Cr_2O_3$ ***1961*** (Nfld OFR 888, p 75, 1976) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 42 | SPRINGER'S HILL<br>Corona Corp<br>12 B/16<br>48°47'34" 58°26'43" | Dis to ms chromite in irregular lenses in early Ordovician dunite of the Lewis Hills Massif of the Bay of Islands Ophiolite Complex. Significant chromite concentration over 300 m × 30 m. | **1941**: staked, dd, stripping, tr.<br>**1961–65**: geol mapping, mag, grav, SP, IP surveys, dd. | Inf: 8 100 mt at 30% $Cr_2O_3$ in main showing ***1962***<br>(Nfld MODS 12 B/16 Cr 2– Cr 10, 1988) | 18 small chromite showings in an area of 4 x 4 km. |
| NFLD. 43 | YORK HARBOUR MINE<br>Satellite Consolidated Metals L (in 1984)<br>12 G/1<br>49°03'00" 58°18'32" | Py–cp–sph stringers, disseminations and veins as stockwork and massive stratiform lenses. Occurs in chlorite alteration zone along the contact between the upper and lower pillow lava units of the Cambrian to Lower Ordovician Blow Mt. Down Massif of the Bay of Islands Ophiolite Complex. | **1905–13**: prod 90,700 tons; 4 shafts, main 485' deep, 6 levels and 800' adit.<br>**1953–55**: u/g work, geol and geoph surveys, dd.<br>**1955–56**: dd by Big Nama Creek ML.<br>**1965–66**: adit driven 2,500'.<br>**1969–70**: geol mapping, u/g work, dd.<br>**1977–78**: further dd. | Prob: 282,000 at 1.92% Cu, 4.67% Zn (incl 20% dil) ***1974***<br>(CJES vol 11, p 53–69, 1974) | Eleven sulphide bodies have been discovered, distributed over a distance of about 1600' x 800'. The bodies vary from 70' to 120' in length, 10' to 30' in width and 180' in height. Copper grades vary between 2.44–4.8%; zinc between 7.06%–19.3%.. |
| NFLD. 44 | GULLBRIDGE MINE<br>(MINERAL POINT)<br>Rio Algom Expl Inc<br>12 H/1<br>49°11'54" 56°09'18" | Mainly disseminated stockwork mineralization and tabular lenses of massive sulphides in cordierite–anthophyllite–chlorite–altered basalt of the Ordovician Roberts Arm Fm. Length to 1400'; width to 218'; max depth 620'. Metallic mnrls incl cp, py, po, mag, ilm, sph, gal. | **1905**: discovery.<br>**1918**: shaft sinking, u/g work.<br>**1922–23**: dd by Reid Nfld CL.<br>**1928–29**: dd, geoph work.<br>**1939–40**: dd, by Nfld GS.<br>**1950–53**: expl by Falconbridge.<br>**1956–58**: shaft deepened; u/g work, dd.<br>**1964–67**: shaft deepened to 1050'; u/g work.<br>**1967–71**: dd, geoph, prod 2,395,368 tons.<br>**1975**: dd. | 2,090,000 at 0.8% Cu ***1970***<br>(Nfld MODS 12 H/1 Cu 7, 1988) | Due to a combination of decreased grade and low Cu prices, mng operations were terminated on Dec 5, 1971. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 45 | LAKE BOND<br>Reid Nfld CL<br>12 H/1<br>49°01′39″ 56°11′11″ | Py–cp–sph ± gal massive sulphide and/or stockwork hosted by mafic volcanics, closely associated with felsic volcanics of the Ordovician to Early Silurian Robert's Arm belt. | **1952–55**: geol, geoph, geochem, dd, discovery.<br>**1956–60**: dd, IP.<br>**1970**: geochem, geol.<br>**1975–78**: dd. | Pot: 5 Mt at 1.25% Zn, 0.20% Cu to 400′ ***c 1975***<br>(Cons Morrison Expl 1977 AR) |  |
| NFLD. 46 | DICKS POINT<br>Crown Land (in 1983)<br>12 H/5<br>49°28′06″ 57°43′37″ | 230 ft of medium–grained (Lower Cambrian) grey qtzites containing minor amounts of py, chlorite, feldspar and magnetite are located along the east shore of East Arm Bonne Bay. | **1861**: discovery.<br>**1947**: geol mapping.<br>**1950**: geol mapping.<br>**1968–69**: expl work. | Est: 1,626,000 flux grade at 96.5% $SiO_2$, 0.43% $Fe_2O_3$ ***and*** 806,000 electrometallurgical grade at 97.5% $SiO_2$, 0.9% $Al_2O_3$<br>(Nfld MODS 12 H/5 Sia 1, 1983) |  |
| NFLD. 47 | HANDCAMP<br>Nfld Expl CL<br>12 H/8<br>49°16′51″ 56°04′25″ | Shear zone related, Au hosted by silicified mafic tuffs, volcanics and volcaniclastic sediments of the Ordovician–to–Early Silurian Roberts Arm Fm. | **1928**: discovery, tr, geol, geoph, dd.<br>**1940–41**: res, dd.<br>**1956**: dd.<br>**1972–73**: geoph, geochem.<br>**1978–79**: geol, geoph, dd. | N/A | Assays from dd by Orenado ML in 1956 were 0.44% Cu, 1.61% Pb, 2.35% Zn, 0.16 oz/t Au and 2.78 oz/tAg<br>(Nfld MODS 12 H/8 Au 1, 1988) |
| NFLD. 48 | COLCHESTER–MAIN ZONE<br>Noranda Expl CL<br>12 H/9<br>49°38′20″ 56°04′51″ | Py–cp ± po–mag–sph disseminations, stringers and massive lenses and pods in chlorite schist developed in mafic breccia and agglomerate unit within variolitic pillow lava of Upper Cambrian Lushs Bight Gp Ophiolite. | **1873–1901**: intermittent prod of c 1 000 tons.<br>**1951**: prospecting, sampling.<br>**1963**: mapping, mag survey, soil sampling, dd.<br>**1970**: mapping, geochem survey, dd. | 1 million at 1.3% Cu ***1967***<br>(Nfld MODS 12 H/9 Cu 5, 1988) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 49 | LITTLE DEER MINE<br>Cassiar Mng Corp<br>12 H/9<br>49°35'20" 56°01'08" | Py–cp–po (sph, mag) disseminations, veins, stringers and massive lenses and pods in chlorite schist derived from basaltic pillow lava and minor tuff of the Lushs Bight Gp Ophiolite. West zone vein is about 600' long, mainly with py, cp, about 8',wide, avgng 2% Cu. The deposit is split by an area of waste rock to form two vein type bodies. | **1952**: explored by Falconbridge.<br>**1955**: geochem.<br>**1960–68**: geol, mag, EM, SP, geochem, dd, u/g dev, 3,000' drift from Whalesback mine by Brinex to lower deposit.<br>**1974–75**: prod 82,259 tons.. | Dd ind: 231,000 at 1.53% Cu ***1973***<br>(Nfld MODS 12 H/9 Cu 2, 1981) | Copper operation closed in 1975 due to lower Cu prices and increased operating costs. |
| NFLD. 50 | RENDELL–JACKMAN<br>Noranda Expl CL<br>12 H/9<br>49°33'47" 56°10'52" | Massive py lenses with some sph and cp in nodules, stringers or lenses in chlorite schist shear zones of Cambrian Lush's Bight Gp Ophiolite volcanics. Two lenses from 600' to 850' long and 100' to 200' wide. | **Early–1900s**: prospecting, shaft sinking; prod 1,200 tons of 3% to 4% Cu.<br>**1935–36** geoph survey.<br>**1938**: geol mapping.<br>**1939**: dd.<br>**1955**: dd.<br>**1959**: geochem.<br>**1966–67**: geochem, SP, IP, dd.<br>**1969**: mag, dd. | Proven: 11,081 Cu, grade unstated<br>(Nfld OFR 888, p 86, 1976) | Up to 4.65% Cu and 0.16 oz/t Au over 2'. |
| NFLD. 51 | MING WEST<br>Petromet Res L (50%)<br>Newfoundland Expl CL (50%)<br>12 H/16<br>49°54' 56°04' | Stratabound mass sulph deposit in Ordovician volcs that appears to thin out with depth. It may correlate with '1807 zone' followed on 1,800' L of Ming mine prior to its closure in 1982. | **1988**: geoph, tr, disc, dd.<br>**1989**: dd. | Dd–ind: 110,000 at 5.6% Cu, 0.37% Zn, 0.069 oz/t Au to 200'<br>(Petromet Res L, letter to shareholders, 7/09/89) | Although continuation of the massive sulphides has been traced down to 1,750', the width of the deposit narrows with depth. |
| NFLD. 52 | MUD POND<br>Noranda Expl CL<br>12 H/16<br>49°58'25" 56°04'03" | Dis, ms, stringers py, cp, po in chl–qtz schist in Lower Ordovician Point Rousse Complex volcanics. Zone 30 x 905 m. | **1937**: discovery, stripping, tr.<br>**1966–68**: geol, geoph, geochem, dd.<br>**1979–80**: geol, geoph, geochem. | Ind: 40,000 at 1% Cu, 2% Zn with traces of Au and Ag<br>(Nfld 12 H/16, Cu 8, 1983) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 53 | PRIEST'S COPPER DEPOSIT<br>Noranda Expl CL<br>12 H/16<br>49°56'35" 56°11'20" | A lens of ms sulphide (pyrite–pyrrhotite–chalcopyrite–sphalerite). The area is under-lain by mafic Eocambrian to Middle Ordovician volcanic and volcaniclastic rocks of the Advocate Complex. . | **1958**: discovery by GSC.<br>**1962, 67**: dd by Advocate ML. | Dd–ind: 40 000 at 1.0% Cu, 2.0% Zn<br>(Nfld MODS 12 H/16, Cu 5, 1984) |  |
| NFLD. 54 | RAMBLER MAIN MINE<br>Petromet Res L (50%)<br>Newfoundland Expl CL (50%)<br>12 H/16<br>49°54'02" 56°03'32" | Ms stratabound exhalative sulphs, py–cp–po–sph with minor gal within mafic metavolcanics of the Pacquet Harbour Group. | **1936**: discovery.<br>**1938**: sampling.<br>**1940–41**: dd.<br>**1944–46**: geoph survey, dd.<br>**1949–51**: dd.<br>**1960**: temporary mining plant erected, shaft sinking, decline.<br>**1963**: mill construction, shaft to 934'.<br>**1964–67**: milled 399 000 mt at 1.3% Cu, 2.16% Zn, 5.1 g/t Au, 23.24 g/t Ag<br>**1988–89**: dd. | 172,854 at 1.75% Cu, 1.09% Zn, 0.37 oz/t Au, 1.12 oz/t Ag above 775' L<br>(Petromet Res L, Interim Rept 30/04/88) | Includes pillars and unmined resources above 650' L and resources below, in the main Cu zone.<br>Two promising gold zones, an upper and a lower, occur adjacent to the copper zone.<br>The gold zones and the downward extension of the main sulphide zone were investigated by drilling in 1988–89. |
| NFLD. 55 | RAMBLER MING MINE<br>Petromet Res L (50%)<br>Newfoundland Expl CL (50%)<br>12 H/16<br>49°54'45" 56°04'59" | The Ming sulph zone occurs within or at the contact of a weekly pyritic sericitic rhyolite and the overlying more massive medium to fine grained pillowed andesite. The sulphs consist of fine to medium grained py, cp, sph with minor gal. The area is underlined by Ordovician volcanic rocks of Parquet Harbour Group. | **1970**: discovery.<br>**1971**: VLF–EM, IP, geochem, dd, decline.<br>**1971–82**: milled 2 195 120 mt.<br>**c 1973**: Ming Footwall zone discovered by dd from 600' L. | ***(i) Old mine***: 500,000 at 3.66% Cu, 0.06 oz/t Au ***1987***<br>(Petromet Res L, interim rept 30/04/88)<br>***(ii) Ming Footwall***: 3 000 000 mt at 1.60% Cu ***pre 1987***<br>(Nfld Rept on Rambler Properties, 12/87) | (i) resources are in pillars and remnants.<br>Ming Footwall tonnage was estimated on the basis of 36 u/g ddhs; good potential for additional tonnage was reported. No drilling was done in the mine area in 1988–89. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 56 | RAMBLER POND TAILINGS<br>Petromet Res L (50%)<br>Newfoundland Expl CL (50%)<br>12 H/16<br>49°54.2′ 56°04.0′ | See Rambler Main and Ming Mines. | **1964–82**: milled 4.7 Mt Cu–Au ore from 4 separate mines: Main Mine, Big Rambler Pond, East Ming and Ming Mine.<br>**1986, 88–89**: auger drilling, metallurgical testing of tailings pond material. | 3 787 700 mt at 1.0 g/t Au *c* ***1987***<br>(Nfld Rept on Rambler Properties, 12/87)<br>***or*** 1,282,728 at 0.049 oz/t (0.03 oz cutoff), 0.31% Cu ***1989***<br>(Petromet Res L, letter to shareholders 7/09/89) | The tailings pond contains mill rejects from all the four former mines. |
| NFLD. 57 | TERRA NOVA MINE<br>Noranda Expln CL<br>12 H/16<br>49°55′17″ 56°13′44″ | Massive, locally banded sulphides (py–po–cp ± sph asp, Au, Ag) in olistostromal rocks consisting of ophiolitic blocks of the Cambrian to Lower Ordovician Advocate Complex, in slate. | **1862–1915**: disc, mng.<br>**1902–04**: 33,812 at 2.41% Cu, some Au and Ag produced; 5 shafts, No. 5 to 640′ with 10 levels and an adit.<br>**1960–61**: u/g workings dewatered, surveyed and mapped; geol, mag, EM, grav. | 250,000 at 2.41% Cu ***1940***<br>(Nfld MODS 12 H/16 Cu 4) | Dewatering of the old mine in 1961 was abandoned because of poor ground conditions. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 58 | DEER COVE (DEVIL'S COVE)<br>Noranda Expl CL<br>(in 1983)<br>12 I/1<br>50•0'43" 56•02'44" | Visible gold occurs in qtz and quartz–breccia veins in relatively unstrained pillow lavas and breccias overlying a moderately north–dipping thrust zone (the Deer Cove Thrust) that developed in sheared talc–carbonate rocks. The main zone has a northerly trend and has been traced for a distance of 500 m. It varies from 1 to 3 m wide and dips 45• to the west. Numerous other auriferous quartz veins have been found in the mafic volcanics, diabase and gabbros that comprise the Point Rousse Ophiolite Complex in this area. | **1986**: disc, sampling tr, channel sampling, dd.<br>**1987**: adit. | N/A Au | Tested to an average depth of 35 m, the zone remains open to depth and along strike.<br>Noranda announced future dd to test the extension of the deposit at greater depth. |
| NFLD. 59 | HODDER PROSPECT<br>Crown Land<br>(in 1984)<br>12 I/1<br>50•07'32" 56•08'30" | Cp, py, po, marcasite, bornite, and chalcocite in 2 bands of marble in calcareous gneiss. Cp main mnrl in veinlets and blebs. Lower band 5' thick exposed for 60', upper band 6' and 20' long. | **1913**: discovery.<br>**1923–25**: shaft sinking, tr, dd.<br>**1956**: dd. | 30 480 mt at 2% Cu ***1956***<br>(Nfld MODS 12 I/1 Cu 2, 1984) |  |
| NFLD. 60 | ROUND POND DEPOSIT<br>Stelco Inc<br>12 P/8<br>51•15'26" 56•15'55" | Sph is in dolomite chert breccia, porous dolomites, pseudobreccias, collapse breccias of the Ordovician St. George Gp. Sph is dis and py (locally up to 95%) occurs over 30 cm. | **1968**: prospecting, mapping discovery.<br>**1969–71**: geochem, dd.<br>**1975**: dd.<br>**1979–81**: geochem. | Ind: 152 400 mt at 2.5% Zn ***1970***<br>(Nfld MODS, 12 P/8, Zn 15, 1988) | Higher-grade sections of 6.5% Zn over 3 m and 3.4% over 6.6 m were encountered. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 61 | MICHELIN<br>Western Cdn Mng Corp (60%)<br>Commonwealth Edison Co (40%)<br>13 J/12<br>54•35′08″ 59•58′50″ | Pitchblende is finely disseminated in rhyolite porphyry of the Proterozoic Aillik Gp. The uranium zones are lenticular up to 5 m thick for several hundred meters along strike and dip for a total length of more than 1 000 m. Associated mnrls incl calcite, hematite, py, sphene and fluorite. | **1967**: discovery as a result of airborne gamma-ray survey.<br>**1968–69**: trenching sampling, dd.<br>**1976**: 2200′ decline, bulk sampling, metallurgical testing by Brinex. | Dd ind: 6,850,000 at 0.13% $U_3O_8$ plus inf: 235,000 at 0.15% $U_3O_8$ ***1980***<br>(Nfld MODS 13 J/12 U 1, 1985) | The project was suspended in 1980. |
| NFLD. 62 | INDA LAKE PROSPECT<br>Crown Land (in 1987)<br>13 J/13<br>54•55′28″ 59•34′50″ | The mineralized zones are restricted to a thin unit of mafic, felsic and calcareous metatuffaceous rocks. The host rocks form part of the Lower Aillik Group of Early Proterozoic age. | **1967**: discovery.<br>**1969**: dd.<br>**1970**: geoph survey.<br>**1977**: dd. | Dd ind: 567,000 at 0.155% $U_3O_8$<br>(Nfld MODS 13 J/13 U9, 1987) | |
| NFLD. 63 | NASH LAKE<br>Western Cdn Mng Corp (60%)<br>Commonwealth Edison Co (40%)<br>13 J/13<br>54•54′37″ 59•37′12″ | Pitchblende is in laminated tuff of the Proterozoic Aillik Gp. Red coloration with relatively high uranium content. 3 zones along a 2.5 mi strike length. | **1968**: located by ground follow-up of an airborne scint survey.<br>**1968–74**: dd, geochem, airborne geoph, boulder tracing, ground geoph.<br>**1977**: mapping, dd. | Dd ind: 238,000 at 0.224% $U_3O_8$ to 400′<br>(Nfld MODS 13 J/13 U6, 1981) | |
| NFLD. 64 | KITTS PROSPECT<br>Western Cdn Mng Corp (60%)<br>Commonwealth Edison Co (40%)<br>13 J/14<br>54•59′52″ 59•29′14″ | Pitchblende and traces of thorianite in graphitic argillite of the Proterozoic Aillik Gp in the contact zone between basaltic lavas and gabbro. The economic portion of the Kitts deposit consist of 3 ore zones each consisting of veins and disseminations in mineralized shear zones. | **1956**: discovery.<br>**1957–58**: trenching, dd, adit by Brinex.<br>**1967–77**: airborne rad and EM, ground mag, rad, geochem.<br>**1974**: decline from adit.<br>**1977–79**: detailed feasibility study. | Geol reserves: 203,880 at 0.73% $U_3O_8$<br>(Nfld MODS 13 J/14 U 1, 1985) | The project was suspended in 1980. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NFLD. 65 | TEN MILE LAKE<br>Kam Creed ML<br>13 L/1<br>54°14′ 62°25′ | Four beryllium-bearing zones are in gneiss, migmatite, and metasomatic zones along shears in syenite. Be mnrls incl barylite, gadolinite and eudidymite. Pyrochlore is the main niobium–bearing mineral. Monazite, allanite, triplite are accessory mnrls. Zone "A" is 13' wide; "B" 1,500' long, 60' wide; "C" 265' long, 54' wide; "D" 700' long, 14' wide. | **1956**: discovery, soil geochem, scint surveys, sampling.<br>**1957**: trenching, geoph surveys, dd, sampling.<br>**1959**: stripping,, berylometer surveys.<br>**1961**: dd.<br>**1967**: mapping. | Est: 2 252 000 mt at 0.30–0.40% BeO<br>(Nfld MODS 13 L/1 Be 1, 1987) |  |
| NFLD. 66 | STRANGE LAKE<br>Iron Ore C of Can<br>14 D/5, 27 A/8<br>56°18′45″ 64°07′45″ | Concentrations of rare mnrls in veins, fluorite breccia zones of hydrothermal alteration, within an alkaline complex of Helikian age. Exotic mineralogy includes: elpidite, gittinsite, zircon and armstrongite (Zr), pyrochlore (Nb), gadolinite (Y, Be), kainosite and allanite (Y, REE) and thorite (Th). | **1978**: geoph.<br>**1982–83**: geochem, geoph, dd. | 52 Mmt at 3.25% $ZrO_2$, 0.66% $Y_2O_3$, 0.56% $Nb_2O_5$, 1.30% REE, 0.12% BeO<br>(Nfld MODS 24 A/8 REE 1, 1987) | The deposit straddles the Labrador–Quebec provincial boundary with some 80% of it on the Nfld side. |

# NOVA SCOTIA

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 1 | MONTAGUE GOLD DISTRICT<br>Westminer Canada L<br>11 D/12<br>44°43'05" 63°30'50" | Gold in qtz veins interbedded with qtzite and slate of the Cambro–Ordovician Goldenville Fm – Meguma Gp. Veins in area 1 mi x 600'. | **1860s**: discovery.<br>**1900–23**: intermittent activity.<br>**1924**: shafts 325' & 425' deep.<br>**1933–39**: prod c 68,139 ozs Au.<br>**1962**: dd. | Prov: 81 000 mt tailings at 1.73 g/t Au; prob: 16 000 mt tailings at 1.81 g/t Au<br>(Seabright Res Inc, LS 23/04/86) | The tailings might be processed at the Gays River mill. |
| N.S. 2 | OLDHAM DISTRICT<br>Westminer Canada L<br>11 D/14<br>44°55'05" 63°29'41" | Gold in conformable qtz veins in interbedded qtzites and slates of the Cambro–Ordovician Goldenville Fm – Meguma Gp. which have been folded into an elliptical dome.<br>Veins are distributed over an area of two miles x 0.5 mile. Associated with the veins and enclosing rocks ar asp, gal and sph. | **1861**: discovery, continuing prod until 1929.<br>**1862–72**: prod in open cuts.<br>**1908**: inclined shaft 725'.<br>**1918**: work was carried out to a depth of 1600', and levels were driven at depths of 1200 and 1300'.<br>**1935–43**: Dunbrack Mine prod. Total prod for the district was 85,295 ozs, from 118,036 tons of ore.<br>**1986**: feasibility study on tailings processing. | Tailings: prov & prob 211 000 mt at 1.89 g/t Au<br>(Seabright Res Inc, LS 23/04/86) | The tailings might be processed at the Gays River mill. |
| N.S. 3 | MOOSELAND<br>Hecla Mining Co of Can L (60%),<br>Acadia Mineral Ventures L (40%)<br>11 D/15<br>44°55'55" 62°46'35" | Gold–bearing qtz veins occur mainly on the south limb of a tight anticline in Cambro–Ordovician Meguma Gp – Goldenville Fm slates and qtzites. | **1858**: discovery.<br>**1866–1914**: intermittent prod of c 3,800 oz Au.<br>**1979, 86, 87**: dd.<br>**1988**: u/g exploration program commenced. | 1 860 000 mt at 13.37 g/t Au ***1989***<br>(NM Magazine, 09/89) | Hecla was granted 60% interest at the end of 1987.<br>Hecla expects to complete u/g expl program and feasibility study before the end of 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 4 | MOOSE RIVER<br>Westminer Canada L<br>11 D/15<br>44°58'40" 62°56'40" | Interbedded gold–bearing type veins in a belt of slate at least 1500' wide. | **1866**: discovery.<br>**1888–1908**: prod.<br>**1908–40**: limited prod.<br>**1947**: shaft dewatering, drifting, bulk testing.<br>**1985–88**: surface and u/g expl: new zone, "Tuoquoy", discovered, decline.<br>**1989**: milling tests, u/g bulk sampling, advanced expl. | Drill ind in–situ geol res: 1.1 million mt at 2.4 g/t Au<br>(Seabright Expl Inc, Press Release 5/10/88) | Total recorded prod from this district was 25,984 oz of gold. |
| N.S. 5 | TANGIER MINE<br>Coxheath Gold Holdings L<br>11 D/15<br>44°48'23" 62°41'41" | Interbedded type qtz veins containing gold in the qtzite and slate of the Cambro–Ordovician Goldenville Fm. They are distributed mainly on the south limb of the Tangier– Harrigan Cove anticline. | **1860**: discovery.<br>**1862–1917**: prod 918 kg gold from 44,487 mt ore.<br>**1928**: shaft sinking.<br>**1934**: shaft dewatering.<br>**1979**: tr, sampling, percussion drilling.<br>**1986**: dd, extension of Marker and Nugget veins confirmed.<br>**1987–88**: u/g dev, decline, crosscuts, drifting and raising, surf and u/g dd, bulk mill tests.<br>**1989**: July 7, first gold ingot poured. | Prov and prob mineable: 134,787 at 1.108 oz/t Au (0.214 cut); poss: 1,350,000 at 0.276 oz/t Au to 600'<br>(CMH 1989–90, p 135) | Prod temporarily suspended mid–1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 6 | HARRIGAN COVE<br>AquaGold Resources Inc<br>11 D/16<br>44°56'15" 62°17'45" | The area is underlain by slate and qtzite of the Cambro–Ordovician Goldenville Fm. Narrow interbedded qtz veins, many of which auriferous, occur on the south limb of a broad anticline. | **1868**: discovery.<br>**1879–1912**: several shafts sunk. St. Anthony vein worked.<br>**1916**: last registered prod.<br>**1936**: prospecting, dd.<br>**1946, 74**: dd.<br>**1981**: test mill, leaching tests, trenching.<br>**1986**: AquaGold acquired the property, dd (88 holes).<br>**1988**: expl work. | Ind: 162,000 at 0.24 oz/t Au; inf: 275,000 at 0.22 oz/t Au; pot: >1 million at 0.24–0.30 oz/t Au<br>(AquaGold 1988 AR) |  |
| N.S. 7 | COCHRANE HILL<br>NovaGold Res Inc<br>11 E/1<br>45°14'58" 62°00'50" | Gold–bearing qtz veins in folded metasedimentary rocks of the Cambro–Goldenville Fm. Qtz veins (from 1" to 12" thick) either singularly or in a zone up to 75' wide, length about 1,800', depth about 350'. Native gold, asp, py, po, gal. | **1868**: discovery.<br>**1869–1928**: mng operations from Mitchell shaft 220' deep and Ross shaft 225' deep, 10 stamp mills, about 11,700 tons milled.<br>**1930–35**: sampling, u/g work, shallow shaft.<br>**1961**: SP, long wire EM.<br>**1973**: mag, VLF–EM, prospecting.<br>**1974**: dd (35 holes, 14,500').<br>**1975**: bulk sample, metallurgical test.<br>**1979–80**: VLF–EM, geochem, bulk sampling, at least 50 ddh, 100 tpd cyanide mill testing.<br>**1981**: heap leaching test.<br>**1986–87**: shaft dewatered, u/g expln, bulk sampling, dd.<br>**1988**: bulk sampling, metallurgical testing, inclined ramp, crosscuts. | Prov: 19,884 at 0.31 oz/t Au; prob: 280,113 at 0.33 oz/t Au; poss: 372,330 at 0.33 oz/t Au<br>(Scominex 1987 AR) | This property is to be re-evaluated as a potential open pit mine. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 8 | GOLDENVILLE<br>NovaGold Resources Inc<br>11 E/1<br>45°07'23" 62°01'25" | Gold in qtz veins cutting steeply folded slates and qtzites of the Cambro–Goldenville Fm, which has been intruded by Devonian granite. Veins are distributed over an area 2 mi x 0.5 mi. Vein mineralogy consists of qtz, Au, arsenopyrite, py, gal, sph and po. | **1861**: Goldenville district discovery.<br>**1861–1942**: continuous prod.<br>**1961**: dd.<br>**1974**: geol survey, tailings sampling.<br>**1975**: VLF–EM and till geochem survey.<br>**1980–82**: geoph, sample testing, dd.<br>**1985–87**: geoph, dd.<br>**1988–89**: u/g expl. | Pot: 1–2 Mt at an undetermined grade Au (Nova Gold Res Inc, "Corporate Profile", 03/88) | An u/g exploration is underway to define reserves, carry out metallurgical testing and to determine the mining method for the deposit. |
| N.S. 9 | BEAVER DAM<br>Westminer Canada L<br>11 E/2<br>45°03'54 62°42'56" | A large number of qtz veins, some of which are auriferous, extend over a distance of 1.6 km on the south limb of an overturned anticline. The veins usually occur interbedded with slate and qtzite of the Cambro–Ordovician Goldenville Fm. | **1868**: discovery, small prod.<br>**1977, 80–81**: dd.<br>**1986–88**: dd, decline, cross-cuts, processing of a series of batch samples from Forest Hill and Beaver Dam properties.<br>**1989**: u/g bulk sampling. | 40 000 mt at 4.9 g/t Au<br>***1988***<br>(CMH 1989–90, p 469) | Oerations suspended in 1989. The property is on a care and maintenance program. |
| N.S. 10 | CARIBOU<br>Westminer Canada L<br>11 E/2<br>45°03'37" 62°56'09" | Gold in interbedded and cross–bedded qtz veins close to the axis of a doubly plunging NW striking anticline. Veins are found in both the Goldenville Fm (conformable veins) and the Halifax Fm (cross veins) of the Cambro–Ordovician Meguma Gp. Mineralization in the Caribou district has been delineated to a depth of 300 m an area 3.2 km x 1.2 km. | **1867**: prod began.<br>**1869–1947**: 91,353 oz Au prod.<br>**1957**: dd.<br>**1973**: sampling.<br>**1983–85**: dewatering, sampling.<br>**1987–88**: surf and u/g expl, dd, dewatering the Holman shaft to 250 m. | N/A | Exploration in 1986–88 was unsuccessful in outlining ore. The company ceased work on this project in the fall of 1988.<br>(Seabright Expl Inc, Press Release 9/5/88) |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 11 | FIFTEEN MILE STREAM<br>Pan East Resources Inc<br>11 E/2<br>45•08'26 62•32'08" | Gold in qtz veins in slates and qtzite of the Cambro–Ordovician Goldenville Fm. Mineralized veins are found in three minor folds on the north limb of the Moose River–Fifteen Mile Stream anticline. The mineable veins are found in an area 2.4 km x 0.4 km. | **1867**: discovery.<br>**1883–1911**: u/g dev. Intermittent prod totalling c 20,000 oz Au.<br>**1927–32**: prospecting, testing, dd.<br>**1940–41**: shaft sinking, drifting.<br>**1982–85**: dd.<br>**1985–88**: 82,735' dd, three new deposits located, u/g expl.<br>**1989**: dd. | ***(i) Egerton McLean***: 270,083 dd–ind at 0.280 oz/t Au<br>***(ii) Hudson***: N/A<br>***(iii) Central Novamin***: N/A<br>(NM 4/11/88) | Three near–surface deposits, the Hudson, Egerton–McLean and Central Novamin were reported to contain a total of over 2 Mt of gold mineralization of unknown grade. Property is under option to Gunnar Gold Mng Inc & Mill City Gold Mng Inc which can earn 37.5% int. and Petromet (12.5%). Planned u/g exploration and sampling 1989. |
| N.S. 12 | FIFTEEN MILE STREAM<br>NovaGold Res Inc<br>11 E/2<br>45•08'00" 62•32'00" | Gold in qtz veins in slates and greywackes of the Cambro–Ordovician Goldenville Fm, located along the Fifteen Mile Stream –Moose River–Beaver Dam anticline. | **1986–87**: discovery by dd.<br>**1988**: bulk sampling commenced. | Dd ind: Plenty Zone, 277,000 at 0.25 oz/t Au<br>(NM 13/6/88) | Bulk sampling of over 6,500 tons yielded an average gold content of 0.07 oz/t Au<br>(NM 3/6/89) |
| N.S. 13 | GAYS RIVER<br>Westminer Canada L<br>11 E/3<br>45•01'55" 63•20'30" | Sph and gal as fine–grained diss and blebs in fossiliferous dolomite of the Mississippian Windsor Gp. Zone about 2½ mi long, about ¼ mi wide, with an average thickness of 15'. Trace amounts of Ag, Cd, Mn, Sb, Ag, Co, Fe. | **1824**: discovery of Pb in area.<br>**1873–74; 1928**: prospect pits and trenches.<br>**1951–52**: sampling dd.<br>**1972–75**: geochem, geoph, dd.<br>**1975–76**: 2,500' decline.<br>**1976–79**: u/g work, sampling, bulk mill testing, mine plant construction.<br>**1979–81**: prod. | Prov: 41 500 mt and prob: 993 000 mt at 5.35% Pb and 9.45% Zn<br>***1986***<br>(Seabright Res Inc, LS 23/4/86) | Operations ceased in 1981 due to complex structure, low grade, and water problems. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 14 | WEST GORE (RAWDON)<br>Dominion Explorers Inc<br>11 E/4<br>45°05'00" 63°47'30" | Stibnite with py, asp, native antimony and gold occurs in seven NW–SE trending fault-hosted fissure veins that crosscut soft talcose slates and qtzite of the Cambro-Ordovician Halifax Fm. | **1880**: discovery of antimony in the area.<br>**1884–98**: dev and mng, 2 shafts to 175'.<br>**1904–09**: mng, 3 shafts, u/g work, 100 tpd mill.<br>**1914–17**: mng, main shaft to over 850', 9 levels.<br>**1942–45**: dev work.<br>**1951**: dd.<br>**1952**: metallurgical testing.<br>**1983–84**: dd.<br>**1985**: geoph, geochem, dd.<br>**1987**: dd identified three gold–antimony structures. | 425' x 1.35' at 3.75% Sb, 0.20 oz/t Au ***1987***<br>(Dominion Explorers Inc, Notice & Inf Circ 28/5/87) | In dumps, grade about 1.29% to 1.78% Sb. |
| N.S. 15 | SMITHFIELD (LEADVILLE)<br>11 E/6<br>45°16'30" 63°04'45" | Gal–sph occurs in a partially replaced limestone bed at the base of the Mississippian Windsor Gp. The deposit, about 500' long, about 20' wide, incl also py, asp, cp, malachite, azurite, barite. A py body with low Zn concentrations is found in the underlying Horton Gp rocks. | **1875–78**: discovery and dev work.<br>**1881–84**: dev work, shafts sunk, smelter erected, prod 300 tons.<br>**1894–95**: dd.<br>**1926**: u/g work, shaft sinking, deepest shaft 115'.<br>**1951–52**: shaft to 235' u/g work, dd.<br>**1964**: dd.<br>**1978–82**: dd. | Proven and ind: 500,000 at 6% Pb–Zn ***1952 ?***<br>(GSC Mem 297, p 95, 1956) | 1952, work on 200' level opened up 150' averaging 12.37% Pb–Zn over 10'. |
| N.S. 16 | LOCHABER LAKE<br>Great Horn Mng Synd Inc (in 1979)<br>11 E/8<br>45°24'15" 62°03' | Disseminated cp, py, gal, sph with minor bornite in argillaceous limestone of the Early Devonian Knoydart Fm. Deposit up to 200' thick, strike length 700', with malachite in bedding planes. Cu varies between 0.2% and 0.5%. | **1970**: discovered during geochem survey, stripping, trenching, dd. | Ind: 2,290,000 at 0.33% Cu (0.2% Cu cut-off) ***plus*** inf: 3,400,000 at unstated Cu grade to 1,000' ***c 1972***<br>(Great Horn Mng Synd Inc, Rept 1972) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 17 | BLACK LAKE<br>11 E/11<br>45°34.5′ 63°19.8′ | Soft cinnamon–brown coloured diatomite (varying in thickness between 2′ to 10′) is found in Black Lake (approximate area 9.5 acres). | N/A | 13,608 dry dtm c ***1944***<br>(NS AR 1944, pp 113–114) | Total volume soft diatomite in Black Lake is 84,000 cu yds. |
| N.S. 18 | CHAIN LAKES<br>11 E/11<br>45°31.5′ 63°24.5′ | N/A | N/A | ***(i) Pond 1***: 6 acres, 5,000 dtm in top 1' to 4'<br>***(ii) Pond 2***: 4 acres, 5.5' deep, 2,500 of fair quality material<br>***(iii) Pond 3***: about 3.5 acres, 7' deep, 2,200 buff mud, 2,800 dark mud<br>***(iv) Pond 4***: about 2.5 acres, 6.5' deep, 2,000 buff mud, 1,000 dark mud<br>***(v) Pond 5***: about 6.25 acres, about 15' deep, 4,000 mud containing large percentage dtm<br>(NS Mnrl File 14–D–3, 1964) | Formerly worked by Int'l Diatomite Industries L. |
| N.S. 19 | TROUT LAKE<br>11 E/11<br>45°34′ 63°29′ | Deposits varying in thickness from 1' to over 21' underlie about 26 acres. | **Early 1920s**: surveyed and sampled.<br>**1949**: sampling. | 42,170 dtm, finished product ***1944***<br>(NS AR 1944, p 110)<br>***or***<br>50,000 dtm finished product ***1949***<br>(Maritime–Barytes L 26/07/51 prospectus) | About 160,000 cu yds dark diatomite (mud) and about 100,000 cu yds white to grey diatomite. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 20 | MALAGASH<br>Cdn Rock Salt CL<br>11 E/14<br>45•47.5′ 63•19.5′ | Sylvite/potash bearing bands and lenses in a salt mass hosted by Mississippian Windsor Gp sediments. There are two potash bearing zones. | **1917**: discovery, dd.<br>**1918**: shaft sinking.<br>**1924–59**: salt mng operations. | Proven: 80,000 at 8% KCL, 17% $MgCl_2.2H_20$<br>***1964 ?***<br>(NS Research Foundation, AR 1964) | Former salt producer. Workings down to a depth of 1,130′, extend for over 1,000′ along strike. |
| N.S. 21 | GOLDBORO<br>Exploration Orex Inc<br>11 F/4<br>45•15′ 61•45′ | Gold occurs in stratabound qtz veins within the slate beds of the Cambro–Ordovician Goldenville Fm. The gold bearing units represent "saddle reef" type deposits and at least four "saddle reef" mineralized horizons have been delineated below the old mine workings. | **1862**: discovery.<br>**1893–1912**: prod at Boston Richardson Mine of 54,871 oz Au.<br>**1926–27**: expl work: Dolliver, West and East Goldbrook deposits identified.<br>**1984–85**: dd.<br>**1987–88**: dd, u/g expl, discovery of four new mineralized zones. | 5.6 Mt at 0.199 oz/t Au (Expl Orex Inc Press Release, 13/07/89) | Goldboro property is the site of four old gold mines, one of which, the Boston Richardson, produced 54,871 oz Au in the early part of the century until forced closed by flooding.<br>The pre–feasibility study indicates that the production could start in Aug 1990.<br>(Orex Press Release, 17/08/89) |
| N.S. 22 | UPPER SEAL HARBOUR<br>Onitap Resources Inc<br>11 F/4<br>45•12′30″ 61•38′ | Gold occurs in qtz veins in a closely folded, easterly plunging anticline. The anticline is in the slates and qtzites of the Cambro–Ordovician Goldenville Fm. | **1892**: discovery.<br>**1892–1912**: prod c 57,000 oz Au.<br>**1984**: dd. | Inf: 750,000 tons at 0.15 oz/t Au<br>(NM 21/2/85) | Production in the area amounts to 57,829 oz of Au recovered from 441,498 tons of ore. Last recorded production was 25 oz in 1957. |

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| N.S. 23 | FOREST HILL<br>Westminer Canada L<br>11 F/5<br>45°18'30" 61°45'30" | Native gold, with py, asp, po, cp and gal in qtz veins distributed on the south limb of an overturned anticline in the Cambro–Ordovician Goldenville Fm qtzite, qtz schist and biotite muscovite schist. These concordant veins are distributed in an area of about 460 m x 1 370 m. | **1893**: discovery.<br>**1895–1957**: intermittent prod, total: 27,060 oz Au.<br>**1981–85**: dd, tr.<br>**1986–87**: shaft sinking, crosscuts, drifting, u/g dev.<br>**1988–89**: shaft to 750', dev and bulk sampling. | 110 000 mt at 8.8 g/t Au<br>***1988***<br>(CMH 1989–90, p 469) | There is additional prob and poss tonnage in eight yet–to–be explored vein systems and their extensions at depth and along strike.<br>In 1987, another gold zone, located half– a–mile from the mine, was outlined. |
| N.S. 24 | MILE LAKE<br>Westminer Canada L<br>11 F/5<br>45°18'18" 61°47'15" | Auriferous qtz veins associated with sheared arsenopyrite–bearing biotite hornfels are hosted by Cambro–Ordovician Goldenville Fm greywacke. Numerous qtz stringers up to 20" wide contain asp and occasionally VG. | **mid–1930s**: shaft sunk.<br>**1979**: geochem, tr.<br>**1980**: bulk sampling.<br>**1983**: dd.<br>**1985**: tr, stripping.<br>**1986**: geochem, geoph, dd.<br>**1987**: dd. | Prov: 400,000 tons at 0.50 oz/t Au<br>(CMJ Oct. 1987) | A 200–ton–per–day gravity and concentrating plant, erected in 1981, exists on the site. |
| N.S. 25 | DORT'S COVE<br>Cdn Alumina Corp L<br>(in 1958)<br>11 F/6<br>45°20'30" 61°28'30" |  | **1957**: 6,000' dd, pitting, bulk sampling. | 30,000,000 at 25% $Al_2O_3$<br>***1957***<br>(NM 16/10/58) | Andalusite–bearing body in an area of about 1,500' by 1,000' to a shallow depth. |

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| N.S. 26 | STIRLING (MINDAMAR)<br>Deak Res Corp<br>11 F/9<br>45•43'40" 60•26'15" | The orebody consists of irregularly shaped lenses of sulphides in a carbonate–qtz–sericite zone occurring within a persistent, wide, steeply dipping shear zone that cuts altered volcanic and sedimentary rocks of the Hadrynian Fourchu Gp. The deposit consisted of about 50% dolomite and magnesite and about 40% sulphides consisting of py–sph–cp–gal–tennantite and minor Au and Ag. | **1895**: discovery.<br>**1916–18**: dd.<br>**1925–26**: dev.<br>**1927–30**: dev, prod.<br>**1935–38**: prod of 35,000 tons concentrate.<br>**1950–52**: u/g work, new mill built.<br>**1952–56**: shaft to 1,172', 8 levels, dd, geoph, geochem, 863,115 tons produced.<br>**1984**: dd.<br>**1986–88**: extensive dd.<br>**1989**: major dd program and EM survey planned. | Prob: 200,000 at unstated Pb grade in pillars ***1964***<br>(J P Messervey 16/12/64 ***in*** Prospectus, Keltic Mng Corp L) | Average grade of ore milled 1952–56 was 5.5% Zn, 1.3% Pb, 0.66% Cu, 0.028 oz/t Au, 2 oz/t Ag. |
| N.S. 27 | LANARK<br>11 F/12<br>45•41'05" 61•55'30" | Marl occurs as a granular to soft, earthy, unconsolidated deposit. No distinct shell fragments are present. The deposit does, however, contain some streaks of sand and hard rounded pebbles of various sizes. | **1894**: prod of c 9 000 tons.<br>**1940–45**: small scale prod, dd. | 75,000 tons marl, grade unstated<br>(NS Marl file: 33–B–17) | The surface topography is considered ideal for removal of any overburden. |
| N.S. 28 | LIME HILL<br>11 F/14<br>45•46'50" 61•09'15" | Disseminated and massive stratiform bands of sph in a metasedimentary suite of gneisses and marbles comprising the Precambrian Lime Hill gneissic complex. Mineralization consists of sph with minor py, po and rare cp and gal with serpentinized limestone. In places there is up to 10% Zn over widths of 20' or 25'. | **Pre–1928**: discovery.<br>**1956**: geochem, EM.<br>**1958**: mag, HEM, dd.<br>**1960**: geochem, geoph, tr.<br>**1964**: soil sampling.<br>**1968**: dd.<br>**1974–76**: dd, tr, geochem, grav. | Ind: 150,000 at 9% Zn ***c 1968***<br>(Patino Mng Corp L, 1968 AR)<br>or<br>2,000,000 at 2.5% Zn ***c 1977***<br>(NS Paper 77–7, p 11, 1977) | There are 4 zones of mineralization, one at least 880' long and 6'–25' wide. Tungsten concentrations in ddhs led to a prospecting programme in 1978, which was unsuccessful. |

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| N.S. 29 | ENON<br>Timminco<br>(in 1986)<br>11 F/15<br>45°48'22" 60°32'25" | Celestite zone (2,400' x 1,400') hosted in Mississippian–Windsor Gp shallow water sediments including limestone, siltstone, conglomerate, gypsum and anhydrite. | **1962**: discovery, Tr.<br>**1963**: dd.<br>**1969–70**: expl and o/p dev, concentrating plant built.<br>**1971–77**: full prod; over 88,000 tons of celestite concentrates produced. | 1,929,594 Sr, grade unstated ***1977***<br>(NS Bull No 4, p 87, 1978) | Plant capacity: 225 tpd celestite concentrates; 90 tpd strontium carbonate and up to 100 tpd sodium sulphate. Prod ceased in 1977 due to reduced demand for Sr products. |
| N.S. 30 | DEEP COVE BROOK<br>11 F/16<br>45°53'25" 60°06'49" | Diss veinlets of mo, py, cp in Devonian monzonite that has intruded Precambrian Fourchu Gp volcanic and sedimentary rocks. In the vicinity of the main Mo zone, monozite and volcanic rocks host Cu–Bi–Ag zones. | **1962–64**: geochem, SP, IP, dd.<br>**1971–72**: str, percussion drilling.<br>**1976**: dd.<br>**1978–79**: EM, dd. | Inf: 6,158,000 tons containing 5,700,000 lbs Cu<br>4,400,000 lbs Mo<br>1,150,000 lbs Bi<br>***c 1978***<br>(NS Asmt Rept 11 F/16D; 07–C–31–(02), 1978) | In 1980, optioned by Amax of Canada L. |
| N.S. 31 | YAVA<br>(Silver Mine)<br>11 F/16<br>45°52'30" 60°25'40" | Finely diss gal in Pennsylvanian sandstone. There are 3 distinctive zones with some Zn and Ag. Pb bearing area about 13,000' x 2,000' x 30'. | **Pre–1880**: pits.<br>**1929**: dd, pits, trenches.<br>**1951**: dd.<br>**1961–64**: EM, soil sampling, dd.<br>**1970**: feasibility study, pilot plant bulk sample test.<br>**1973**: dd, 247 holes totalling 87,844 feet.<br>**1977**: detailed dd.<br>**1979–81**: prod. | Poss: 20,000,000 at > 3% Pb ***1980***<br>(NM 28/02/80)<br>*or* 960,000 at 5.46% Pb<br>(CMH 1981–82 p 47–48) | Operations ceased in 1981, due to decreased lead price and higher than anticipated costs. |

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| N.S. 32 | COXHEATH MINE<br>Coxheath Gold Holdings L<br>11 K/1<br>46°05'09" 60°21'18" | Cp, py with minor Au in 4 parallel, steeply dipping shear zones hosted by Cambrian qtz diorite and Hadrynian Fourchu Gp volcanics/volcaniclastics. Cp and py is associated with ilmenite and occasionally sph, gangue mineralogy consists of qtz, tourmaline, albite, carbonate and apatite. | **Pre–1875**: discovery.<br>**1881–84**: No 1 shaft 176', No 2 shaft 1980' sunk.<br>**1893–99**: No 2 shaft at 350', intermittent prod 3,000–5,000 tons.<br>**1929–30**: u/g work, dd, shaft sinking.<br>**1947**: u/g workings, dewatered, geol and geoph surveys.<br>**1952**: dd<br>**1963–67**: dd, IP, bulldozing.<br>**1975**: geochem.<br>**1976–77**: dd, EM surveys.<br>**1977–78**: chip sampling, dd. | ***No 2 Zone***: 405,000 prob and inf at 3.15% Cu, 0.02–0.05 oz/t Au, 2–3 oz/t Ag<br>(Coxheath AR 1986) | The property contains at least three additional geol similar zones. Grab samples from No 4 zone has returned assays as high as 17% Cu and 0.05 oz/t Au, 1 829 m south of the Coxheath Mine. Cu–Mo mineralization in northerly trending, closely spaced, parallel qtz veinlets and hairline fractures are found in diorite and granodiorite. |
| N.S. 33 | MIDDLE RIVER (SECOND GOLD BROOK)<br>Victoria County Explns Inc (option)<br>11 K/2<br>46°14'48" 60°54'46" | The deposit consists of veins and stringers occupying fault and fracture planes that crosscut a highly metamorphosed series of interbedded calcareous schists of the Hadrynian (?) Sarach Brook metamorphic suite. This sequence has in turn been intruded by Devonian granites and a 45 m gabbroic sill. The qtz carries weak py–po mineralization and frequently shows coarse visible gold. | **1863**: discovery.<br>**1906–15**: intermittent prod,. totalling 1,440 oz Au.<br>**1955–56**: EM, dd.<br>**1967–68**: IP, dd.<br>**1984–85**: 412' adit; 2,000 lb bulk sample. | Pot: 80,000–250,000 at an undetermined grade Au<br>(Victoria County Explns Inc, Notice of Annual Meeting of Shareholders, 16/10/86) | Arsenic, silver and trace amounts of nickel are associated with the gold. The Lizard is the largest of five known veins of similar composition found over a width of 700' along Second Gold Brook. It has been developed underground for a length of 650' and vertically for 200'. Old trenches have exposed the vein intermittently for a further 2,000' west of Second Gold Brook. |

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| N.S. 34 | CAMPBELL VEIN (T E CAMPBELL)<br>11 K/3<br>46°07'25" 61°08'00" | Barite–fluorite vein 6'–12' wide, traced for 550' in a fault that crosscuts Mississippian sandstone of the Horton Gp and rhyolitic tuff of the Devonian Fisset Brook Fm. The vein appears to be the continuation of the MacMillan vein. | **1903**: 450' tunnel on the vein, open cuts.<br>**1903–39**: intermittent prod.<br>**1907**: expl.<br>**1954–56**: dd.<br>**c 1969**: gravity, EM, geochem, dd. | Ind: 385,902 at 36.70% $BaSO_4$, 23.23% $CaF_2$<br>***c 1972***<br>(NS Bull No 4, p 298 1978) | The amount produced from the Campbell vein is not known. |
| N.S. 35 | EVANS (MACKAY OR TROUT BROOK)<br>Conwest (in 1986)<br>11 K/3<br>46°06'03" 61°07'45" | Fluorite–barite vein 14"x14' wide, traced for 330' in fault contact between welded rhyolitic tuff of the Devonian Fisset Brook Fm and Mississippian Horton Gp sedimentary rocks. | **1890**: veins discovered in the area.<br>**1941–42**: trenching, 80' inclined shaft, short adit, prod, dd.<br>**1943**: dd, metallurgical testing. | 330' x 14' at unstated $CaF_2$ and $BaSO_4$ grade (Yale Ld & Zn ML, TSE FS 1358, 1965) | Production: 1,000 tons ranging from 47% to 60% $CaF_2$ taken from here. |
| N.S. 36 | JOHNSON<br>Conwest (in 1986)<br>11 K/3<br>46°06'40" 61°07'00" | Barite and fluorite veins in faults crosscutting Devonian Fisset Brook Fm in rhyolite and/or rhyolitic tuff. Lengths of 195' to 400' widths to 62' vertical extent to 800' | **1886, 1894–24**: mng operations, adit 250'.<br>**1954; 1965**: dd, trenching, mapping.<br>**1968–72**: geoph and geochem surveys, dd. | Ind and prob: 1,325,900 $BaSO_4$, grade unstated<br>***1972***<br>(NS Bull No 4, p 298, 1978) | $BaSO_4$ range 21.62–56.43%. $CaF_2$ range 7.02%–22.82% |
| N.S. 37 | J.A. MacDOUGALL PROSPECT<br>Conwest (in 1986)<br>11 K/3<br>46°06'03" 61°07'20" | Veins containing barite and fluorite in a fault cutting Devonian Fisset Brook Fm welded tuff. Lengths of 40' and 140'; widths of 7' and 9'. | **1945**: short adit, 2 test pits.<br>**1965**: mapping, dd.<br>**1968–72**: geoph and geochem surveys, dd. | Ind and prob: 599,240 at unstated grade $BaSO_4$<br>***1972***<br>(NS Bull No 4, p 298, 1979) | $BaSO_4$ between 37.63% and 71.14%; $CaF_2$ from 8.83% to 16.80%. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| N.S. 38 | MacMILLAN MINE<br>Conwest (in 1986)<br>11 K/3<br>46°07'33" 61°07'50" | Barite–fluorite vein 19' wide, 700' long in a fault in welded rhyolitic tuff of the Devonian Fisset Brook Fm. The vein is probably the continuation of the Campbell and MacDougall vein. | **1903**: open–cuts, 125' inclined shaft.<br>**1903–39**: intermittent prod.<br>**1954–56**: dd.<br>**c 1968**: gravity, EM, geochem, dd.<br>**1969–72**: pilot plant testing.<br>**1971–72**: geochem, geoph, dd. | Ind: 2,353,507 at 28.68% $BaSO_4$, 19.67% $CaF_2$<br>***c 1972***<br>(NS Bull No 4, p 298, 1978) | Metallurgical tests indicated about a 98% barite recovery in a 93% $BaSO_4$ concentrate, and an 80% fluorspar recovery in a 97 + % $CaF_2$ concentrate. |
| N.S. 39 | MEAT COVE<br>11 N/2<br>47°00'30" 60°35' | The deposit represents a roof pendant of Precambrian Blair River Complex of (sphalerite dissemination, stringers and masses in serpentine dolomite) in Hadrynian syenite. Metallic mnrls incl py, po and very rare cp, gal, mag, germanite, bornite and renierite. Nonmetallics incl serpentine, talc and about 12% brucite. | **1953**: Aeromag, dd.<br>**1955**: 561' adit, 229' cross-cutting, dd.<br>**1968**: trenching.<br>**1971**: geochem, EM. | Ind: 4,400,000 at 4.0% Zn, 0.15 to 0.47 lb/t Cd<br>(NM 12/10/72) | Zone traced for a length of 4,500' width up to 350' and contains Cd, Ge, Ag. |
| N.S. 40 | CHEGOGGIN POINT<br>20 O/16<br>43°52' 66°10' | Qtzite and garnetiferous hornblende schist of the Silurian White Rock Fm have been traced for over 9.6 km. The garnetiferous horizon averages at least 40% garnet over a width of 9 m. | **1945–63**: quarrying.<br>**1985**: trenching, market studies. | N/A Si–Gnt | A typical qtzite analysis: $SiO_2$, 97.1%; $Al_2O_3$, 0.97%; $Fe_2O_3$, 0.51%; CaO, 0.28%; MgO,10%.<br>Qtzite was quarried intermittently between 1946–63. Material used in manufacture of glass brick and as a flux in open hearth steel-making operations. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| N.S. 41 | BROOKFIELD (LIBBEY)<br>21 A/7<br>44°25′ 64°55′ | Gold in qtz veins in an anticline of Cambro–Ordovician Goldenville Fm. Qtz veins about 10″ to 2.3′ wide. | **1885**: discovery.<br>**1886–1906**: mng the Libby vein.<br>**1888–92**: mng East Mine vein and Nelson lead.<br>**1900–05**: mng in East Mine vein.<br>**1932–36**: operations on the King Fissure.<br>**1964**: dd, mag survey. | N/A Au | Total production was 43,041 oz Au. |
| N.S. 42 | LEIPSIGATE<br>Coxheath Gold Holdings L<br>21 A/7<br>44°19′ 64°37′ | Gold occurs in narrow qtz veins on the eastward plunging end of an anticlinal dome in Cambro–Ordovician Goldenville Fm metawackes. The veins are in an area 4.8 km x 2.4 km. | **1880s**: discovery.<br>**1896–1908**: production.<br>**1941**: dd.<br>**1946**: shaft to 300′.<br>**1983**: VLF–EM.<br>**1984**: evaluation.<br>**1985**: shaft rehab, sampling of 15 known gold–bearing veins. | Pot: 612 000 mt at 13.7–17.1 g/t Au ***1983***<br>***or*** inf: 423 265 mt at 11.66 g/t Au ***1984***<br>(Coxheath Gold Holdings L, AR 1986) | Production prior to 1908 was 443 kg Au from 34,124 tonnes of ore. |
| N.S. 43 | LOWER MINE (CAIN)<br>Marpic Expls L<br>(in 1960)<br>21 A/16<br>44°50.9′ 64°27.0′ | Mn oxides mainly pyrolusite in a vein (ranging in thickness from a few inches to 6′) in a fault in Devonian porphytitic biotite granite. Mineralized zones are limited in depth to 200′ and capped by about 20′ ochre. | **1891–93**: discovery and dev.<br>**1894–1903**: intermittent mng.<br>**1916**: ore recovered from dump.<br>**1919–21**: operations.<br>**1930**: one shaft dewatered, a small mill erected.<br>**1942**: dd.<br>**1957–58**: dd, a new shaft to 178′. Original shaft 196′ deep with drifts at 45′; 95′; 165″.<br>**1965, 68**: IP, gravity, geochem surveys. | Poss: 36,000 manganese material<br>(NS AR 1945, p 153) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| N.S. 44 | MILLET BROOK<br>Falconbridge L<br>21 A/16<br>44°52′10″ 64°16′40″ | Secondary uranium mnrls near surface and pitchblende at depth in Devonian granite. | **1976**: discovery, airborne radiometric survey.<br>**1978**: scint and radon gas surveys, geochem, pitting.<br>**1981–82**: dd, 139 holes, 11 342 m. | 1,000,000 lbs contained $U_3O_8$ (in 3 zones) c ***1981*** (D Pollock, presentation at NS Mining Soc, June 25, 1981) |  |
| N.S. 45 | UPPER MINE (DEAN & CHAPTER)<br>Edgehill ML<br>(in 1968)<br>21 A/16<br>44°52.2′ 64°26.2′ | Mn oxides (mainly pyrolusite) in a vein about 1′ thick in a fault in Devonian porphyritic biotite granite. Mn zone traced for 250′, capped by about 20′ ochre and traced to a depth of about 200′. | **1907**: discovery.<br>**1910–11**: u/g dev, mill constructed.<br>**1915–21**: intermittent prod.<br>**1930–34**: concentrating plant built to treat material on dumps.<br>**1935–36**: new shaft, u/g dev.<br>**1940–42**: u/g mng and dev, dd,. No. 1 shaft 230′. | Poss: 5,000 manganese material ***1942***<br>(NS AR 1945, p 152) |  |
| N.S. 46 | LITTLE RIVER DEPOSITS (WIGHTMAN)<br>Mrs Wightman<br>(in 1952)<br>21 B/8<br>44°26′ 66°10′ | A series of lakes and swamps are underlain by 1′ to 8′ of grey diatomite which in turn overlies variable amounts (up to 20′) of diatomaceous ooze. | **1928**: calcining plant was erected.<br>**1929–36**: operations.<br>**1938–43**: operations.<br>**1953, 1954, 1955**: small shipments of calcined material. | 300,000–400,000 dtm, grade unstated ***1927***<br>(NMI est) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.S. 47 | WALTON (MAGNET COVE)<br>21 H/1<br>45°12'20" 64°02'30" | Pear shaped pipe–like mass of barite in central part of a dragfold in probable Pembroke Fm limestone of the Mississippian Windsor Gp. Deposit has a 500' strike length, 80' width and 1,000' down dip length.<br>An irregular–lens of Pb–Zn–Cu–Ag sulphides is below the barite deposit from 250' below surface to 800' depth. Sulphides make up 25% of deposit and incl gal, marcasite, py, chalcocite, sph, cp, tetrahedrite, argentite and ruby silvers. | **1940**: barite discovery, dd.<br>**1941–58**: 100 tpd mill, o/p and u/g mng of barite.<br>**1957**: discovery of ms sulphide deposit beneath barite deposit.<br>**1959**: u/g mng started.<br>**1961**: 125 tpd mill for sulphide processing, Pb–Cu–Zn–Ag prod commenced.<br>**1968**: shaft 1,715', 12 levels, 1,000 tpd barite mill built, u/g dev.<br>**1970**: mine flooded, prod from surface stockpiles.<br>**1971–78**: water level maintained at 1,000' depth, prod ceased 1978. | 350,000 at $30.00/ton Pb–Zn–Cu–Ag to 750' (GSC P 62–25 pp 21–23, 1962) | Since 1971, prod was from salvage of old stopes from 850' level to 350' level. Mine was scheduled to shut down late in 1978, but a major water break–in caused operations to cease February 15, 1978. |

# NEW BRUNSWICK

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| N.B. 1 | NANTUCKET ISLAND<br>Great Horn Mng Synd Inc (in 1981)<br>21 B/10<br>44°42' 66°43' | At least three bands of fairly pure qtzite are present on Nantucket Island. These bands, the widest of which is nearly 1,000', are part of the qtzose sedimentary rocks of the Green Head Group of Precambrian age. | **1974**: sampling.<br>**1975**: shallow dd by Union Carbide. | c 2 million at 98% silica to 20'<br>(NB OFR 82–31, p 131, 1981) | Silica from this deposit is suitable for prod of ferrosilicon. |
| N.B. 2 | WHITE HEAD ISLAND<br>Great Horn Mng Synd Inc (in 1981)<br>21 B/10<br>44°37'30" 66°43'52" | Clean white qtzite of the Green Head Gp of Precambrian age occurs at White Head, on the west side of White Head Island | **1974**: sampling.<br>**1975**: shallow dd by Union Carbide. | 770 000 tonnes at 98% $SiO_2$ above high tide level<br>(NB OFR 82–31, p 131, 1981) | Pot tonnage to 25' depth est at 2.250 million tons (UCEX 1976). |
| N.B. 3 | BURCHILL ROAD<br>NB Dev Corp (in 1980)<br>21 G/1<br>45°10' 66°14' | The favourable qtzite bed is 200'–500' thick and extends on strike for 1 mile. | **1968–75**: mapping, sampling, beneficiation tests. | Prob: 10,000,000 at 91.4% $SiO_2$, 3.2% $Al_2O_3$, 1.0% $Fe_2O_3$ *c* ***1975***<br>(NB OFR 80–4, p 95, 1980) | Material can be significantly upgraded by acid washing and magnetic separation. |
| N.B. 4 | SCOTT FALLS DAM<br>Falconcrest Res Inc<br>21 G/1<br>45°10'55" 66°21'04" | Sulph–bearing qtz–carb veinlets occur in a narrow block of sands, silts, slate, silicic tuff and minor conglomerate of Carboniferous age, in fault contact with a granite of late Precambrian age. | **1950**: discovery.<br>**1962**: dd.<br>**1965**: geoph, dd.<br>**1967**: expl work, dd.<br>**1987**: soil sampling, geoph, channel sampling, dd. | Poss: 20–25 000 at 3–4% Pb, 0.3–0.5% Cu, 3–5 oz Ag/t to 150' ***1968***<br>(NB AF 470022, 1968) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 5 | ST. STEPHEN<br>Cobrun Mining Corp<br>21 G/3<br>45°13'22" 67°18'09" | Massive and disseminated po, veinlets and blebs cp, minor pn in a gabbro mass near contact with qtzites and argillites of Dennis Fm. Generally, nickel is an isomorphous replacement in po. | **1880**: prospecting.<br>**1947–48; 1953**: geoph, dd.<br>**1958**: dd.<br>**1959–60**: 288' shaft on Rogers Zone, 2 levels, u/g drifting, crosscutting, dd.<br>**1971–74**: dd, ground geoph and metallurgical tests by Boliden.<br>**1985**: investigated as a PGE prospect; bacterial leaching tests. | ***(i) Rodgers Farm***: 380,000 proven at 1.05% Ni, 0.46% Cu; 84,000 ind at 0.61% Ni, 0.34% Cu; 153,000 inf at 1.05% Ni, 0.46% Cu ***1969***<br>(NB OFT 80–4, p 86, 1980)<br>***(ii) Hall–Carroll***: 400,000 poss at 0.94% Ni, 0.53% Cu ***1969***<br>(Atlantic Nickel ML 1969 prospectus)<br>***(iii) C–zone***: 300,000 at 0.99% Ni, 0.36% Cu ***1971***<br>(NB OFR 77–2, 1977)<br>***or i, ii, iii***: 1,000,000 at 1.05% Ni, 0.53% Cu<br>(NB Info Circ 86–2) | GSC is conducting (1988) a detailed study of the deposits. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 6 | MOUNT PLEASANT<br>a) Fire Tower zone: Lac Mnrls L (100%)<br>b) North zone: Lac Mnrls L (50%) Billiton Metals Can Inc (50%)<br>21 G/7<br>45°26' 66°49' | Porphyry–tungsten deposits within a series of Mississippian volcanic rocks. Two areas of known molybdenum–tungsten mineralization ore. The Fire Tower zone (at least two higher grade molybdenum–tungsten bodies), and the North zone (four poorly delineated, high-grade molybdenum–tungsten zones, a bismuth zone, a deep tin zone and six, near surface tin–base–metal bodies. | **1954**: geochem survey, dd by Selco.<br>**1956**: dd.<br>**1959–60**: tr, dd.<br>**1967–76**: property extensively explored, dd.<br>**1977**: Billiton and Brunswick Tin Mines – prod decision.<br>**1983**: mill construction, u/g, dev.<br>**1983–85**: prod from Fire Tower West zone.<br>**1985–87**: u/g ramp between the mine and North zone, dd 21 500 m, two bulk samples processed, feasiblity study. | ***(i) Fire Tower zone***: 12.2 Mt at 0.38% $WO_3$ and 0.20% $MoS_2$ 1983 (NB Info Circ 85–2, p 103)<br>***or*** 9,353,000 Mt proven at 0.393% $WO_3$, 0.204% $MoS_2$ plus 17,250,000 Mt at 0.21% $WO_3$, 0.14% $MoS_2$ ***c 1979*** (NM 27/12/79)<br>***and*** 739,800 poss at 0.53% Sn, 3.56% Zn, 0.68% Pb, 0.34% Cu to 600' (9% dil) ***1964*** (TR Clarke, Mount Pleasant ML 17/11/64)<br>***(ii) North zone***: 5.9 Mt at 0.79% Sn ***1983*** (NB Info Circ 85–2, p 103)<br>***or*** 11,350,000 Mt dd–ind at 0.241% $WO_3$, 0.08% $MoS_2$ plus 2,400,000 Mt at 0.42% Sn, 0.077% $WO_3$, 0.05% $MoS_2$ ***c 1979*** (NM 27/12/79)<br>***and*** 3,842,000 prob & poss at 0.56% Sn, 2.26% Zn, 0.15% Pb, 0.22% Cu to 1,000' (15% dil) ***1964*** (TR Clarke, Mount Pleasant ML 17/11/64) | The Mount Pleasant tungsten mine was operated by Billiton. The site is presently on care and maintenance program.<br>Feasibility study done on North zone (1987) found that mining would not be viable at the prevailing price of tin. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 7 | EVANDALE<br>Costigan Gold Corp<br>21 G/9<br>45°35'02" 66°05'51" | Cu, Mo sulphs dis and in fractures in a 8,000' x 1,000' zone in Devonian granitic rocks, intruding Silurian sandstone/siltstone and mafic flows. | **1967**: discovery by stream sediment sampling; subsequently, limited soil geochem, geoph and dd by Riocanex. | N/A<br>Large low-grade Cu-Mo zone<br>(NB OFR 80-4, p 83, 1980) | The large low grade Cu-Mo zone has received only minor expl work but further work might delineate an economic deposit. Most of the granite body lies in the Camp Gagetown military reservation so is not available for staking. |
| N.B. 8 | GOLDEN GROVE<br>Glenvet Res L<br>21 H/5<br>45°21' 65°58' | The deposit is in a roof pendant of limestone in granite. The graphite lies along bedding planes in the limestone. | **c 1938**: discovery, pits.<br>**1982, 85**: VLF EM, mag, tr.<br>**1987**: dd, bulk sampling. | poss: 225-450 000 mt at 30-38% grp to 150-300 m ***1985***<br>(GCNL 28/04/86) | Trenching in 1985 has indicated a graphite horizon 2 m in width and 425 m in strike length. |
| N.B. 9 | TEAHAN MINE<br>Brunswick Mng & Smg Corp<br>21 H/10<br>45°42'50" 64°59'20" | Mineralized zone extends over 1,000' in a local flexure in schist. Py, cp, tennantite, sph and gal occur in a gangue of qtz, carbonate, alunite and barite. | **1883-87**: shaft sunk, smelter erected, 2 tons Cu matte shipped.<br>**1927-28**: trenching, sampling, dd.<br>**1935**: two small shafts sunk.<br>**1953**: geoph and geochem surveys, 10,930' dd.<br>**1967**: geoph and geochem, 1,000' dd.<br>**1969-71**: EM, IP, geochem, dd.<br>**1984**: mag, VLF EM, Max-Min. | Poss: 135,000 at 0.46% Cu, 1.46% Zn, 0.87 oz/t Ag ***1968***<br>(F Scott 20/09/68, rept for Mija ML) | Resource estimate based on 1953 drilling results. Possibility of larger low-grade tonnage. |
| N.B. 10 | ANNIDALE<br>Lac Minerals L<br>(option in 1986)<br>21 H/13<br>45°46'43" 65°46'35" | Cp in a narrow pyritic shear zone in mafic tuffs. | **c1900**: discovery.<br>**1902-22**: several pits and shallow shafts; shipped two carloads of high-grade. c1920.<br>**1951-55, 69**: 6,800' dd.<br>**1983-86**: dd, mag, VLF EM. | Dd-ind: c100,000 at 2-7% Cu ***1983***<br>(NB OFR 88-1, p 80) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 11 | GOSHEN<br>A W Lockhart<br>(in 1985)<br>21 H/14<br>45°46'30" 65°10'20" | Chalcocite, covellite, chalcopyrite in: matrix of Mississippian conglomerate and as pebble coatings; as fracture and cavity fillings in near–surface enriched zone. | **1925**: discovery; intermittent work since.<br>**1955–56**: trenching and sampling.<br>**1978**: soil geochem and rad surveys. | 25,000 at 2.25% Cu ***1956***<br>(NB CMOD #36) | The zone is fully delineated by trenching and dd. Can be mined by open pit. |
| N.B. 12 | DAWSON SETTLEMENT<br>21 H/15<br>45°56'30" 64°44'50" | Three bog deposits of manganese are located below the orifices of a series of mineral springs. | **1887–1930**: shipped intermittently c. 3,300 tons (wet basis). | 42,690 at 6.97% Mn, 4.77% Fe in bog ***c 1920***<br>(GSC EG 12, p 75, 1932) |  |
| N.B. 13 | DORCHESTER BARITE<br>Dorbeck Syndicate<br>(in 1972)<br>21 H/15<br>45°56'30" 64°31'45" | Deposits of barite–celestite occur as replacements in limestone breccia and beds of the Windsor Group of Mississippian age. The mineralized zone is 300' wide and about 4,000' long. | **c1970**: discovery, stripping, gravity survey. | 1,000,000 at up to 85% $BaSO_4$ to 150' ***1971***<br>(CMJ, March 1971) | As inferred from exposures and a gravity survey. |
| N.B. 14 | HILLSBOROUGH<br>CGC Inc (in 1979)<br>21 H/15<br>45°54' 64°41' | Gypsum and anhydrite of the Windsor series occurs in a shallow basin of c 14 sq mi. Largest known deposits in N.B. | **Pre–1947–80**: intermittent prod from several quarries. | Resources sufficient for 100 yrs at 40–50,000/ annual prod ***1979***<br>(NB OFR 80–4, p 97) | CGC Inc. which had been quarrying since 1930, closed operations at the end of 1980 because of poor market conditions and antiquated state of plant. |
| N.B. 15 | DORCHESTER MINE<br>21 H/16<br>45°55.7' 64°28.6' | Lenticular masses of chalcocite and malachite in Pennsylvanian grey sandstone and conglomerate. Zone 1 km by 2 km.<br>Uranium mineralization is apparently associated with that of copper. | **c1870**: discovery.<br>**1898–1917**: intermittent work, several shafts, 2 adits, 2 mi. u/g workings, mill, minor prod.<br>**1951–52**: sampling of u/g.<br>**1978**: dd. | Poss: 2–3,000,000 at 2% Cu ***1974***<br>(NB OFR 80–4, p 83) | In 1978, dd by Gulf Mnrls Can L obtained an average of less than 1% Cu in a zone 1 200 m x 6 m to 350 m. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 16 | CANAAN RIVER<br>21 I/3<br>46°14′15″ 65°08′50″ | The deposits are made up of 5 bogs which lie below the orifices of a series of mineral springs. Manganese dioxide is deposited on top of an original, sand, gravel or clay surface. The deposits are fan shaped and pinch out laterally at their lowest and richest parts. | **Pre–1932**: sampling. | 20,290 at 5.01% Mn, 1.31% Fe in bog *c* ***1930***<br>(GSC EG 12, p 83, 1932) | Manganese is considered easily attainable by stripping. |
| N.B. 17 | GRAINFIELD<br>21 I/13<br>46°48′22″ 65°52′17″ | Seven bogs occur near the Renous River. Four are on the south side of the river and three are on the north side. | **1940**: survey and sampling by W.J. Wright. | 16,886 at 9.75% Mn in bog *c* ***1941***<br>(NB, Sidwell, p 139, 142, 1952) |  |
| N.B. 18 | ZEALAND STATION<br>Shediac Bay Res Inc<br>21 J/2<br>46°03′18″ 66°58′13″ | Beryl and tourmaline occur along the southeast margin of Devonian Hawkshaw granite, near the intrusive contact with hornfels developed in Silurian rocks. Mineralized area is about 200′ x 10–30′. | **pre–1957**: disc.<br>**1962**: explored by Latam Expl.<br>**1982**: explored by BM&S.<br>**1985–86**: tr, sampling, metallurgical testing, geochem, geoph. | 147 000 mt at 0.74% BeO ***1986***<br>(NB AF 473251) |  |
| N.B. 19 | CONNELL MOUNTAIN<br>21 J/4<br>46°07′45″ 67°31′10″ | Porphyry type deposit. Sulphs (po, py, cp, mo) occur as disseminations along hairline fractures replacements and in qtz veins in a Devonian granodiorite. | **1970**: geochem disc, percussion drilling. | 21,000,000 'protore' at 0.18% Cu plus 1,000,000 'supergene ore' at 0.04–0.07% Cu ***1970***<br>(GSC Paper 87–1A, p 494) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 20 | WOODSTOCK<br>21 J/4<br>46°11'00" 67°39'12" | Iron and manganese oxides occur in lenticular shaped masses, in Silurian strata of grey–green, green and red slates. Four deposits have been outlined. | **1836**: discovery.<br>**1843–84**: c 70,000 mined and smelted for iron.<br>**1956–62**: small tonnages mined, milled and shipped for metallurgical tests.<br>**1976**: geol and geochem investigations.<br>**1978**: mag and VLF surveys. | 194,000,000 at 9% Mn in 6 deposits ***1957***<br>***or*** proven: 3,000,000 lt contained and extractable Mn metal ***1971***<br>(NB OFR 80–4, p 81 | Tonnage is to 152 m and based on limited drilling and extrapolation from gravity surveys.<br>Maritime Res Research L carried out a mag survey here in 1987. |
| N.B. 21 | BURNT HILL TUNGSTEN<br>Canadian Pacific Enterprises (in 1985)<br>21 J/10<br>46°34'10" 66°48'50" | Wolframite, molybdenite and cassiterite in greisenized granite and in fissure veins parallel to joints in the granite and cutting across sedimentary rocks. | **1910**: tungsten identified.<br>**1912–17**: surface and limited u/g dev.<br>**1916–18**: 15 t $WO_3$ conc. shipped.<br>**1941–42**: trenching, ore dressing tests.<br>**1953–54**: 3,646' lateral advance in adit, 150 tpd mill erected.<br>**1955–57**: more than 40 t $WO_3$ conc. shipped.<br>**1956–57, 63–64**: dd. | 1,500,000 at 0.75–1% $WO_3$ ***1964***<br>(NM 27/08/64) |  |
| N.B. 22 | MOUNT COSTIGAN<br>Amoco Can Petroleum (in 1985)<br>21 J/14<br>46°58'46" 67°02'17" | Sph, gal, py, cp in a stockwork of veinlets and disseminations in a silicified breccia in the core of a 200–300 m diameter breccia pipe within Early Devonian felsic pyroclastics. | **1973–74**: geoph, geochem, dd, disc<br>**to 1979**: 31 ddh.<br>**1983**: dd. | 6–8 Mt at unstated low grade Zn–Pb–Cu 1985<br>(NB RI–20, p 25, 1985) | One ddh cut 75.5 m at 0.84% Pb, 1.86% Zn, 2.43 g/t Ag. Gold content is between trace and 1.9 g/t. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 23 | CHESTER (CLEARWATER)<br>Brunswick Mng & Smg Corp & Granges Expln L<br>21 O/1<br>47°05'54" 66°14'50" | Streaks and lenses of disseminated and massive sulphides within a zone of qtz–chlorite–sericite schist about 300' thick between qtzite beds. Principal sulphides are gal, sph, cp, py, and po. | **1955**: airborne EM, staking, surface expl, dd.<br>**1959**: geoph expl.<br>**1963–65**: option to Newmont.<br>**1966–70**: optioned and then bought by Sullivan Mng Gp L, extensive dd.<br>**1974–75**: decline driven 1,200'. | ***(i) Open–pit***: prob: 1,600,000 at 2.12% Zn, 0.83% Pb, 0.63% Cu ***and*** 3,300,000 at 0.82% Cu<br>***(ii) Underground***: poss: 3,800,000 at 1.58% Cu ***and*** 9,200,000 at 0.44% Cu<br>***1969***<br>(NB OFR 80–4, p 43) | Property approx 40 mi SW of Bathurst. |
| N.B. 24 | A'HEARN BROOK<br>Brunswick Mng & Smg Corp<br>21 O/8<br>47°28.3' 66°12.0' | Stratiform ms sulph zone, 150 m x 0.61 m, extends 365 m down–plunge, between FW felsic volcs and HW metaseds of Ordovician age. | **1968–70**: disc, dd.<br>**1981–83**: dd.<br>**1987**: geochem. | 63 500 mt at 0.80% Cu, 5.25% Pb, 9.80% Zn, 66.17 g/t Ag ***1976***<br>(NB CMOD #120) | Located 2.5 km NE of Strachens Lake Brook deposit. |
| N.B. 25 | CALIFORNIA LAKE<br>Corona Corp<br>21 O/8<br>42°27'07" 66°08'22" | Lens of mass sulphs and assoc dis and stringer sulphs in graphitic slate of Tetagouche Gp between units of porphyritic rhyolite. The sulphs appear as 2 parallel bands (avg 1 m width) 4.6 m apart. | **1956**: disc.<br>**1955–57**: geochem, geoph, dd.<br>**1959**: geoph, dd.<br>**1963, 64**: dd.<br>**1965**: geoph.<br>**1973–75**: geochem, geoph, dd.<br>**1984–85**: VLF EM, mag, tr. | 12,000 at 8% Pb–Zn, appreciable Ag, some Cu, Au ***1974***<br>(NB AF 470951) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 26 | CANOE LANDING LAKE<br>R Stairs<br>21 O/8<br>47°24'39" 66°06'24" | Massive, banded sulphides (po, py, sph, gal, cp) as lenses in Ordovician greywacke and phyllite near contact with gabbroic intrusives. | **1953–57**: mapping, geoph, geochem, dd by Conwest.<br>**1958–64**: geol, geoph, geochem dd by Cons Zinc. Mass sulph body outlined.<br>**1965–66**: dd by Clearwater Ms L.<br>**1969–76**: property optioned to Teck Corp.<br>**1981**: property optioned by BM&S.<br>**1981–82**: geoph, geochem surveys, dd.<br>**1983–84**: geochem, dd. | 20 380 000 mt at 0.56% Cu, 0.64% Pb, 1.82% Zn, 29.5 g/t Ag, 1.07 g/t Au ***1984***<br>(NB Info Circ 86–1, p 56)<br>***including*** 1.3 Mt at 5.65% Zn, 2.69% Pb, 2.87 oz/t Ag, 0.087 oz/t Au<br>(NM 12/12/88) | Property 43 Km SW of Bathurst and 2.5 km NE of Wedge Mine. Under option to Morton Gordon. |
| N.B. 27 | DEVIL'S ELBOW<br>Conwest Expln CL<br>21 O/8<br>47°25' 66°24' | Ordovician volcano–sedimentary complex. Disseminated to massive po with minor cp and py in a chlorite schist. | **1956–57**: mapping, geoph, geochem, dd.<br>**1971–73**: surf work, dd.<br>**1978**: geochem, IP, EM surveys.<br>**1980**: optioned by BM&S, geoph, geochem surveys.<br>**1982**: dd. | Dd–ind: 350,00 at 1.2% Cu ***1965***<br>(Devil's Elbow ML 1965 prospectus)<br>and 170,000 at 0.7% Cu ***1972***<br>(L R Fyffe, Geology of Forty–Four Mile Brook) | Property 90 km W of Bathurst. Tonnage estimates preliminary. |
| N.B. 28 | GOODWIN LAKE (MALISEET)<br>Granges Expln L (in 1987)<br>21 O/8<br>47°15'46" 66°21'22" | Disseminated to massive sulphide mnrl'n occurs in irregular pods and lenses near the margin of the Goodwin Lake intrusion; a dyke–like body of mafic to ultramafic composition. | **1950**: dd by Noranda.<br>**1967–68**: dd.<br>**1971**: dd.<br>**1985**: HEM.<br>**1989**: dd. | Dd–ind: 16 million at 0.31% Cu, 0.30% Ni, plus minor Bi, Co, Ag<br>(CMH 1972–73, p 80) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 29 | HALF MILE LAKE<br>1) Texasgulf Zone: Falconbridge L<br>2) Conwest Zone: BM&S and Canacord Res Inc (in 1988)<br>3) Halfmile Lake North Zone: Noranda Inc<br>21 O/8<br>47°18' 66°19' | The deposit consists of at least three mineralized zones within a 3 km long sulphide-bearing sequence. The sulphides are fine grained, massive to disseminated banded po-py-sph-gal-cp, and are accompanied by chlorite alteration. These zones, are known as Halfmile Lake (Texasgulf), Halfmile Lake (Conwest) and Halfmile Lake North.<br>Deposits are hosted in Ordovician rhyolitic tuff adjacent to contact with overlying qtz-feldspar porphyry. | **1955–56**: EM, discovery dd.<br>**1969–71**: geoph, dd on North zone.<br>**1975**: dd .<br>**1979**: Texasgulf property (Upper Zone) optioned to Billliton.<br>**1980–81**: 21 000 m dd.<br>**1986–88**: dd on Conwest Zone. | ***(i) Halfmile Lake Zone – Texasgulf***: 4 717 357 mt at 6.57% Zn, 2.49% Pb, 0.39% Cu and 1 088 621 t at 2% Cu<br>***(ii) Halfmile Lake Zone – Conwest***: 2 041 164 mt at 7.7% Zn, 2.5% Pb, 0.14% Cu<br>***(iii) Halfmile Lake North Zone***: 789 250 mt at 4.95% Zn, 0.87% Pb, 0.39% Cu, 8.23 g/t Ag, 0.171 g/t Au<br>(NB Info Circ 88–1, p 82) | BM&S was looking for additional targets within Conwest Zone in 1987–88. |
| N.B. 30 | HEATH STEELE<br>Noranda Inc & Brunswick Mng & Smg Corp L<br>21 O/8<br>47°17' 66°05' | Stratabound massive sulphide deposit associated with acidic extrusives. The sulphides are extremely fine grained and compose 95% of the ore. The known ore zones are contained in three areas "B", "A–C–D" and "E" which extend over a distance of 3 mi. The host rocks are of Middle Ordovician age. | **1954**: discovery.<br>**1957–83**: prod, except for 1958–62 shutdown. During 1983, gossan ore was treated 3 mos for recovery of Au and Ag. | Mineral Inventory: 15 177 200 mt at 1.24% Cu, 1.63% Pb, 5.03% Zn, 60.34 g/t Ag, 0.62 g/t Au ***1986***<br>(NB Info Circ 88–1, p 101) | Plan to reopen mill (poss in 1989) and mine by o/p from "C" zone and u/g from "B" & "C" zones. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 31 | NEPISIGUIT "A", "B" and "C"<br>Cominco L<br>21 O/8<br>47°22'46" 66°01'50"<br>47°22'30" 66°01'36"<br>47°22'23" 66°02'30" | The three deposits are faulted segments of the same mineralized lens, consisting 70–80% py, and 10% or less combined sph, cp, po, and gal in a gangue of qtz and carbonate. Host rock and footwall is black argillite, hanging wall is mainly rhyolite. | **1956**: geoph, dd, disc.<br>**1958, 62, 66**: unspecified exploration.<br>**1977**: mag and gravity surveys.<br>**1983**: EM survey. | **"A"**: 1.7 million at 0.4% Cu, 0.6% Pb, 2.8% Zn, 0.3 oz/t Ag<br>**"B"**: 1.5 million at 0.1% Cu, 0.4% Pb, 1.9% Zn, 0.3 oz/t Ag<br>**"C"**: 0.7 million at 0.4% Cu, 0.7% Pb, 2.1% Zn, 0.6 oz/t Ag<br>(D A Williams, MOD 210/8–10, 11 and 12) | Property 38 km SW of Bathurst. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 32 | STRATMAT DEPOSIT<br>Noranda Inc<br>Brunswick Mng & Smg Corp<br>21 O/8<br>47°18'28" 66°08'03"<br>47°18'42" 66°07'07"<br>47°18'30" 66°08'27"<br>47°18'20" 66°08'25"<br>47°18'17" 66°08'10" | The Stratmat deposit consists of; Stratmat East (Main) Zone, Stratmat Central Zone; Stratmat West Zone A; Stratmat West Zone B; and, Stratmat Stringer Zone. The nearby N–5 or Boundary Zone is closely related to the west zones, but is on the Heath Steele side of the property boundary.<br>The massive banded sulphides consist of fine– to medium–grained interbanded sph–gal and py, with local coarse–grained cp hosted by argillite. Vaguely banded py–cp occurs locally. The sulphide deposits are sandwiched between the two polydeformed sequences of felsic crystal and lapilli tuffs. All rocks are thought to be Middle Ordovician in age. | **1956**: Main or Stratmat (East) zone was discovered by Stratmat L following geoph survey, dd.<br>**1961**: discovery of the West Zone by Cominco.<br>**1972**: dd, discovery of the Stringer Zone and Central Zone by Cominco, mineral dressing tests.<br>**1986**: West Zone drilled by BM&S to obtain metallurgical samples.<br>**1987–89**: decline driven 6,000' for bulk sample. | ***Main Zone***: 700,000 at 0.03% Cu, 1.8% Pb, 5.2% Zn, 1.9 oz/t Ag and 500,000 at 1.9% Cu<br>***Central Zone***: 200,000 at 0.5% Cu, 4.3% Pb, 8.0% Zn<br>***Stringer Zone***: 200,000 at 2.0% Cu<br>***West Zone***:<br>***a) Main***: 1.6 million at 2.9% Pb, 7.5% Zn, 0.9 oz/t Ag<br>***b) East zone (depth)***: 400,000 at 0.7% Cu, 2.6% Pb, 12.2% Zn, 0.7 oz/t Ag<br>***Heath Steele***:<br>***West zone A, N–2*** : 600,000 at 0.5% Cu, 3.6% Pb, 9.6% Zn, 2.3 oz/t Ag<br>***N–5*** : 600,000 at 0.5% Cu, 3.2% Pb, 8% Zn, 0.9 oz/t Ag<br>***c 1981***<br>(NB Info Circ 83–2, p 81–82) | Deposits are located 5 km NW of Heath Steele mine. Plan shipments to Heath Steele mill late 1989. |
| N.B. 33 | STRACHENS LAKE BROOK<br>Brunswick Mng & Smg Corp<br>21 O/8<br>47°27'40" 66°13'52" | Long narrow (610 m x 3 m to 100 m) deposit of dis–mass sulphs in felsic metatuff and cherty argillite of the Tetagouche Gp (py, sph, cp, gal, po). | **1970**: disc.<br>**1977, 82–83**: dd. | 500 000 mt at 0.7% Cu, 0.6% Pb, 2.6% Zn ***1984***<br>(NB CMOD #283) | Figure represents a rough estimate in NB Mineral Occurrence File. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 34 | TAYLOR BROOK<br>Stratabound Mnrls Corp<br>21 O/8<br>47°21' 66°01' | Stratabound massive py with sph and gal in chloritic to siliceous tuff or volcanogenic sediments. Deposit is at least 300 m long x 100 m deep. | **1977**: discovery; mag, EM, soil geochem survey, 1 ddh.<br>**1978**: 5 ddh by South Bathurst Joint Venture.<br>**1988**: geoph, tr, sampling. | Poss: 250,000 at unstated, low-grade Zn–Pb<br>(P K Gummer, Report of Work for Cons Morrison, Nov 1978) | One of the best intersections was 6.5 m at 1.6% Zn, 0.8% Pb, 0.01% Cu, 0.04 oz/t Ag. |
| N.B. 35 | ARMSTRONG "A" & "B"<br>East West Caribou Mng L<br>21 O/9<br>47°36'06" 66°02'33" | Gal, sph, cp, asp, mag, and py in chlorite–sericite schists of the Middle Ordovician Tetagouche Gp. | **1956–?**: discovery, unspecified expln.<br>**1983–84**: geoph.<br>**1986**: gravity, IP, VLF EM, mag, soil geochem. | Prob & poss: 3.1 million mt at 0.29% Cu, 0.42% Pb, 2.29% Zn, 0.68 g/t Au, 2.4 g/t Ag<br>(NB CMOD #484) | Property SW of Bathurst. The Armstrong "B" is a low-grade pyritic Zn–Pb–Cu deposit, occurring as two lenses. |
| N.B. 36 | CARIBOU<br>Bathurst Base Metals Corp<br>21 O/9<br>47°34' 66°17' | Four stratiform tabular mass banded sulph lenses arranged en échelon for 1500 m along the contact between Ordovician Tetagouche Gp phyllite and chlorite schist, and acid metavolcanics schist. There is a supergene Cu–zone capping and a 1–12 m thick gossan enriched in Au and Ag. | **1955–56**: disc by dd of ground EM anomaly (follow-up of aeromag anomaly).<br>**1965–66, 70–74**: u/g dev via decline, surf and u/g dd.<br>**1970–71, 73–74**: 1,000 tpd mill completed, 910,000 at 3.4% Cu mined o/p from the supergene zone.<br>**1981–83**: heap leaching of stockpiled gossan for Au and Ag; dd.<br>**1987–89**: u/g dev, new 2000 tpd mill in prod Jan–Aug '89. | Proven & prob: 4 174 000 mt at 8.46% Zn, 3.84% Pb, 109.6 g/t Ag, 1.7 g/t Ag to 600 m ***1988***<br>(CMH 1989–90, p 158)<br>or 49,400,000 at 4.48% Zn, 1.7% Pb, 0.47% Cu, 1.71 oz/t Ag ***1983***<br>(NB Info Circ 83–2, p 37) | Shut in Aug 1989 for re-evaluation; planned to resume u/g dev in Nov 1989 and prod in early 1990.<br>East West Mnrls NL, 1988 AR also lists two separate deposits above 3rd L: 384 000 mt at 3.8 g/t Au and 226,000 mt at 2.1% Cu. |
| N.B. 37 | McMASTER<br>East West Caribou Mng L<br>21 O/9<br>47°36'26" 66°13'59" | A layer of mass to dis py–cp is 320' x 15' to 500' depth. Sulphs are hosted conformably by Middle Ordovician argillite and phyllite. | **1957**: EM, dd, disc.<br>**1961, 64**: dd.<br>**1986**: gravity survey. | 200,000 at 0.6% Cu<br>*c* ***1964***<br>(NB MOF #477) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 38 | MIDDLE RIVER (SMITH)<br>F Smith<br>21 O/9<br>47°33.0' 66°01.2' | Dis to semi–ms and stringer sulphs stratabound within Tetagouche Gp chloritic schist between mafic flows and pyroclastics. | **1968**: disc.<br>**1969, 74–75, 82–84**: geoph, geochem, dd. | Poss: 130 000 mt at 1.90% Cu ***1975***<br>(NB AF 471795–6) | Approximate tonnage assuming a 5' x 700' x 400' deposit<br>(NB CMOD #478) |
| N.B. 39 | MURRAY BROOK<br>NovaGold Res Inc<br>21 O/9<br>47°31'31" 66°25'51" | Sulphide body 1,400' long by 600' wide in chloritic schists of Ordovician age. Mineralization consists of massive py with gal, sph, and minor co. | **1956–57**: discovery, dd.<br>**1974–75**: fill–in dd, geoph and geol surveys.<br>**1985**: dd, gold–bearing gossan zone outlined.<br>**1986**: feasibility study (gossan zone)<br>**1989**: dd to evaluate poss'y of mng a copper zone. | ***(i) Sulphides***:<br>23,000,000 at 1.95% Zn, 0.86% Pb, 0.44% Cu, 0.91 oz/t Ag, 0.01 oz/t Au, 34% S, 34% Fe in ***1957***<br>(NB OFR 80–4, p 76)<br>***(ii) Gossan zone***: prob: 1,690,000 at over 0.037 oz/t Au, 1.49 oz/t Ag<br>(CMH 1989–90, p 348) | NovaGold expects production in 1989 of the gossan zone by o/p and vat leaching and is evaluating the possibility of mining a copper zone. |
| N.B. 40 | ORVAN BROOK<br>21 O/9<br>47°37'37" 66°08'07" | Massive sulphide zone averaging less than 30" thick and having a length of 8,000' lies along the contact between Ordovician Tetagouche Gp crystal tuff, and greenstone. | **1860**: float discovered on Armstrong Brook.<br>**1937–38**: source of float located, trenched and drilled.<br>**1945**: geoph, 1,297' dd.<br>**1950–53**: deep dd.<br>**1977**: dd.<br>**1986**: one ddh. | Dd–ind: 150,000 at 7.13% Zn, 3.27% Pb, 0.20% Cu, 0.017 oz/t Au, 2.52 oz/t Ag across 6.5' ***1953***<br>(A L McAllister, Mineral Occurrences in NB 05/54)<br>***or*** 200,000 at 6.3% Zn, 3.25% Pb, 1.0 oz/t Ag to 500' ***1968***<br>(GSC Mem 371, p 91, 1974) |  |
| N.B. 41 | ROCKY TURN<br>East West Caribou<br>Mng L<br>21 O/9<br>47°38'00" 66°04'15" | Sph, gal and cp bodies in schist and porphyry. | **1956**: discovery. | Poss: 180,000 mt at 0.3% Cu, 1.5% Pb, 7% Zn, 78.86 g/t Ag<br>(NB CMOD #479) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 42 | McKENZIE GULCH (LEGACY)<br>Teck Corp<br>21 O/10<br>47°42'42" 66°58'44" | Cu–Zn–Pb sulphides occur in several parallel bands or lenses as fracture fillings within fractured and silicified late Ordovician limestone. The limestone is intruded by qtz–feldspar porphyry dykes and skarn is developed. The dykes are also mineralized locally. | **1970**: discovery, geoph, dd.<br>**1971**: dd.<br>**1972**: dd, geoph surveys.<br>**1976–78**: dd. | Drill ind: 490,000 at 1.7% Cu, 0.3 oz/t Ag to 750' ***1970***<br>(NM 28/09/78) | The mineralized structure is 300' wide, 800' long and plunges 65–70° E. |
| N.B. 43 | RESTIGOUCHE (CHARLOTTE GROUP)<br>Marshall Minerals Corp<br>21 O/10<br>47°30'20" 66°33'50" | Fine–grained, massive to disseminated sulphides (py, sph, gal, cp, tennantite) as tabular lens in felsic volcanic flows and pyroclastics. Cone–shaped deposits plunges NW 20°. | **1955–56**: soil geochem, geoph, dd.<br>**1965**: dd, metallurgical tess.<br>**1972**: dd, metallurgical tests, IP, geochem.<br>**1974**: dd by Placer.<br>**1981–82**: dd, geochem.<br>**1988–89**: dd, metallurgical tests. | 1.73 million dd–ind at 6.94% Zn, 5.36% Pb, 0.34% Cu, 3.27 oz/t Ag, 0.035 oz/t Au, ***incl*** 1.5 million o/p at 7.71% Zn, 5.96% Pb, 0.38% Cu, 3.62 oz/t Ag, 0.04 oz/t Au<br>(CMH 1989–90, p 305) | May ship ore 20 km to the Caribou mine. |
| N.B. 44 | POPELOGAN<br>Corona Corp & P Jamieson<br>21 O/15<br>47°47' 66°36' | Sulphs in an oval–shaped skarn zone in Silurian lste, developed around Devonian granodiorite intrusive bodies. | **1955**: EM, dd.<br>**1960–61**: tr, geoph, dd.<br>**1966, 69**: dd.<br>**1981**: geochem, mag, dd. | Poss: 3.3 million at 0.3% Cu<br>(NB AF 472878, 1982) |  |
| N.B. 45 | BENJAMIN RIVER SOUTH<br>21 O/16<br>47°49.16' 66°21'10" | Py, po, bornite, tetrahedrite, sph, moly and scheelite in fractured and altered Devonian granodiorite porphyry | **1968–73**: geoph, geochem, dd. | 23,000,000 at 0.18% Cu, 0.01% Mo ***c 1970***<br>(CIM Bull, v 75, No 842, p 88; June 1982, NB CMOD 21 O/16 W1)) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 46 | AUSTIN BROOK (BATHURST IRON MINE)<br>21 P/5<br>47°23'48" 65°49'21" | The ore occurs as a conformable lens of massive sulphides 450 m long, 4.5 m wide and 210 m deep. The deposit represents the sulphide facies of iron formation which is sandwiched between Ordovician Tetagouche group felsic metavolcanic rocks. | **1897**: discovery of iron, prospecting.<br>**1907, 1943**: limited production of iron ore.<br>**1952**: discovery of sulphs, dd.<br>**1974**: geoph and geochem surveys, prospecting. | Dd–ind: 1,000,000 at 1.86% Pb, 2.93% Zn, 1.0 oz/t Ag ***1952***<br>(GSC Paper 63–24, 1964) | This deposit is about 900 m S of the Brunswick No. 6 mine. |
| N.B. 47 | CAPTAIN<br>Stratabound Mnrls Corp<br>21 P/5<br>47°17'03" 65°52'58" | Massive banded, stringer and diss py–cp in chloritic and augen schists along the contact with chloritic metasediments. Host rocks are Ordovician Tetagouche Group. Stratiform massive sulphide deposit. | **1956**: discovered by dd (Captain Yellowknife Mines).<br>**1956–57**: dd.<br>**1963, 65, 71–72**: dd.<br>**1983**: unstated expl work.<br>**1984**: mag, VLF–EM .<br>**1988**: OBd, IP. | Dd–ind: 343,000 at 1.99% Cu, 0.28 oz/t Ag, 0.017 oz/t Au to 1,200' ***1965***<br>(CMH 1966–67, p 69)<br>***or*** 197,220 at 2.12% Cu, incl 48,939 at 0.05 oz/t Au<br>(CMH 1989–90, p 428) | This deposit is approx 1000' to the north of the Heath Steele railway line, and about 9 mi E of Heath Steele mine. |
| N.B. 48 | CAPTAIN NORTH EXTENSION (CNE)<br>Stratabound Mnrls Corp<br>21 P/5<br>47°17'40" 65°53'10" | Py and Pb–Zn–Ag sulphs in Ordovician Tetagouche group qtz–sericite tuff and chert overlain by black slate and qtz–feldspar augen schist, on the flank of a rhyolite dome. | **1978**: geochem, dd, discovery.<br>**1989**: dd, bulk sampling, metallurgical tests planned. | 210,000 o/p at 7.60% Zn, 2.98% Pb, 2.92 oz/t Ag to 40 m | Deposit located approx 1.5 km NNW of the Captain deposit. |
| N.B. 49 | FAB MAIN ZONE<br>Brunswick Mng & Smg Corp<br>21 P/5<br>47°26'45" 65°49'00" | Sub–economic deposit comprised of disseminated to massive sulphs in qtz stringers.<br>Stratabound deposit approx 1 675 m long, 9 m wide and 400 m deep. | **1950**: discovery, geoph.<br>**1952**: dd.<br>**1977**: dd.<br>**1983–86**: mag, gravity max–min, VLF, Pulse EM, dd. | Poss: 16 330 000 mt at 0.60% Zn, 0.30% Cu, 10.29 g/t Ag<br>(NB CMOD #122) | Approximate tonnage calculated from dimensions of orebody. Grade is approximate. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 50 | FLAT LANDING BROOK<br>Sabina Res L<br>21 P/5<br>47°22'55" 65°52'35" | Base metals occur in felsic tuffs, sandwiched between a sequence of welded, fine-grained tuff interbedded with qtz–augen tuff (footwall) and a sequence ranging from very fine-grained ash to agglomerate (hanging wall). The sulphides and host rocks have been intruded by an irregular "diorite complex" (gabbro). The deposit comprises four mineralized lenses. | **1975–77**: discovery.<br>**1982**: Intensive geoph and geochem surveys, dd. | 1,930,000 at 0.94% Pb, 4.9% Zn, 0.57 oz/t Ag to 1,000' ***1978***<br>(NB OFR 82–31, p 96) | The deposit, comprising North and South zones, is located 4 mi SW of BM&S No. 6 mine. |
| N.B. 51 | HEADWAY<br>I Graham<br>21 P/5<br>47°26'48" 65°54'01" | Narrow band of massive to disseminated sulphs in Ordovician Tetagouche group chloritized felsic tuff (qtz–sericite schist), interbedded with mafic volcanics and chert. The mineralized body is about 950 m long, 160 m deep and up to 15 m wide. | **1953**: staked.<br>**1954–56**: dd.<br>**1957**: discovery, tr, dd.<br>**1958**: dd. | ***(i) Blocks A & B***:<br>263,100 mt poss at 1.43% Cu, 2.1% Pb, 6.2% Zn, 20.9 g/t Ag<br>***(ii) Block C***: 54 400 mt poss at 0.77% Cu, 1.3% Pb, 3.9% Zn, 14.74 g/t Ag<br>(NB AF 472314) | This deposit is approx 1.6 km E of Pabineau deposit. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| N.B. 52 | KEY ANACON<br>Key Anacon ML<br>21 P/5<br>47•26'12" 65•42'20" | Massive sulphide replacement lens in zone 1,200' long by 200' wide in graphite–chlorite schist. Two mineral assemblages: (1) py, gal, cp; (2) po–sph with minor py, gal, cp. | **1864**: first discoveries.<br>**1946–47**: geoph, dd.<br>**1951–57**: geoph, dd expl shaft to 1,500' with 9 levels.<br>**1961**: dd.<br>**1964–66**: u/g dev and dd.<br>**1970**: feasibility study.<br>**1973–78**: geoph and geochem surveys, minor dd.<br>**1981**: dd. | ***(i) Zone 1***: 337 000 mt prob at 1.05% Pb, 3.86% Zn, 42.86 g/t Ag<br>***(ii) Zone 2***:<br>***a) high grade***: 1 103 722 mt proven and 32 881 mt prob at 0.22% Cu, 3.47% Pb, 8.41% Zn, 111.43 g/t Ag, avg 8.5 m thick<br>***b) low–grade***: 285 046 mt proven and 27 874 mt prob at 0.16% Cu, 1.50% Pb, 4.75% Zn, 35.66 oz/t Ag, avg 4.6 m thick<br>***c) copper zone***: 69,770 mt proven and 18 129 mt prob at 1.45% Cu, 0.41% Pb, 1.08% Zn, 26.4 g/t Ag, avg 3 m thick<br>***(iii) Zone 3***: 79 000 mt prob geological at 1.69% Pb, 7.40% Zn, 50.40 g/t Ag<br>(NB Info Circ 88–1, p 83–84) | Bathurst–type fine–grained sulphides create recovery problems.<br>Present deposit was discovered by drilling EM anomaly in 1953. |
| N.B. 53 | LOUVICOURT DEPOSIT (NINE MILE BROOK)<br>Brunswick Mng & Smg Corp<br>21 P/5<br>47•23'25" 65•55'59" | Tabular zone containing two massive sulphide lenses assoc with iron fm lenses of barite–jasper–qtz–hematite–chlorite. Deposit is 450 m long and approx 8 m wide. Down rake length is 150 m. A gossan is developed over the sulphide zone. | **1964**: discovery.<br>**1965–67**: geoph, geochem, dd.<br>**1979**: 1 ddh. | Proven: 147,000 at 1.23% Pb, 1% Zn, 0.42% Cu, 2.65 oz/t Ag, 0.028 oz/t Au ***1969***<br>(NB AF 471255, 1976) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| N.B. 54 | PABINEAU<br>I Graham<br>21 P/5<br>47°26'58" 65°55'07" | Lenses containing disseminated sulphs occur in Ordovician Tetagouche Group, within a zone of rhyolite and augen schist. | **1953**: discovery.<br>**1954**: dd.<br>**1957**: tr.<br>**1958**: 11 ddh.<br>**1966–67**: dd, IP survey, ore dressing tests.<br>**1973–75**: mag, EM, tr, dd. | Poss: 150,000 at 2.65% Zn, 0.87% Pb<br>(NB CMOD #157) | |
| N.B. 55 | BERESFORD COPPER<br>Brunswick Mng & Smg Corp<br>21 P/12<br>47°41'54" 65°51'29" | Deposit consists of 3 or more irregular mineralized lenses in a band of skarn associated with the Nicholas Denys granitic stock. | **1955**: dd 15,000' by Noranda.<br>**1956, 1957, 1962**: dd.<br>**1970–72**: EM, mag, geochem, dd. | Dd–ind: 200 000 at 2% Cu ***1952***<br>(GSC Paper 67-49, 1969)<br>***or*** 558,883 at 1.8% Cu ***1970***<br>(F P Tagliamonte, rept for Superior Copper ML 31/07/72)<br>***or*** 453,928 at 1.29% Cu<br>(CMH 1972–73, p 226) | |
| N.B. 56 | MILLSTREAM HENDRY<br>Corona Corp<br>21 P/12<br>47°39'53" 65°56'41" | Massive to disseminated sulphs occur in or near carbonate–rich veins, fractures and lenses cutting sheared and brecciated Ordovician Tetagouche Group graphitic schist and argillite. Individual veins form system which pinch, swell and bifurcate over a strike length of 600 m and width of up to 120 m. | **1968–72**: discovery, geochem, dd. | Drill ind: 71 700 mt at 163.2 g/t Ag, 1.57% Zn, 2.23% Pb, 1.06 g/t Au<br>(NB AF 471694, 1977) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| N.B. 57 | ROCKY BROOK (QSR)<br>Corona Corp<br>21 P/12<br>47°40'20" 65°54'66" | Several py–po–sph–gal deposits occur along a fault zone within rocks of the Tetagouche Gp. Sulphides characteristically occur as a broad zone of sparsely disseminated and thin seams of po and py with minor sph and gal with local vein concentration of sph and gal constituting the "ore" shoots. | **Pre–1890**: minor exploration, pitting, trenchng.<br>**1937**: Cominco option – surface work, some dd.<br>**1951–53**: surface work.<br>**1955–57**: 552' shaft on "shaft" deposit, 2 levels, u/g drifting.<br>**1967–69**: geoph surveys; dd.<br>**1978–79**: VLF, mag, soil geochem surveys.<br>**1982–83**: dd, tr. | ***(i) Shaft deposit***: 82,500 prob at 3.63 oz/t Ag, 1.17% Pb, 4.58% Zn to 500'; 262,500 poss at 3.26 oz/t Ag, 2.28% Pb, 3.30% Zn.<br>***(ii) Hachey deposit***: 42,000 poss at 7.9 oz/t Ag, 1.78% Pb, 2.71% Zn to 200', plus another 105,000 to 500', grade unstated.<br>***(iii) Half Mile deposit***: 17,200 at 2.5 oz/t Ag, 4.47% Pb, 3.90% Zn<br>***(iv) Pine Tree deposit***: 105,560 at 2.35 oz/t Ag, 2.82% Pb, 3.40% Zn to 130'<br>***1957***<br>(GSC Paper 67–49, 1969) | Property 12 mi NW of Bathurst in Rocky Brook area. |
| N.B. 58 | TETAGOUCHE FALLS<br>Cdn Manganese Mng Corp (in 1964)<br>21 P/12<br>47°36' 65°49' | Deposit consists of a 160' thick bed of red argillite, of the Ordovician Tetagouche Gp, that has been tightly folded and cut into longitudinal fault slices. Mn occurs in the argillite as an invisible component and as visible pyrolusite and manganite veinlets and black oxides and rhodo-chrosite in concretions. | **1842**: discovery, 125 t ore shipped.<br>**1859–64**: surface and u/g expl, minor shipments.<br>**1946**: pits, short adits and shafts.<br>**1953–54**: 27,000' dd, geoph surveys. | 39,000,000 at 5.5% Mn<br>***1954***<br>(GSC Mem 371, p 97, 1974) | In two parallel bodies suitable for open–pit mining. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| N.B. 59 | ALCIDA (ELMTREE)<br>Corona Corp<br>21 P/13<br>47°48.4′ 65°48.8′ | NW–trending sph–py–gal–asp–stibnite veins and disseminations cutting Ordovician metaseds (near their contact with Silurian metaseds). | **1939**: disc.<br>**1984**: geoph, geochem, dd.<br>**1986–88**: dd. | Geol res: 350,000 at 0.13 oz/t Au ***1988***<br>(D Hoy, oral 29/09/89)<br>***or*** c 650,000 at 0.15 oz/t Au<br>(NM 12/12/88) |  |
| N.B. 60 | TURGEON<br>Heron ML<br>21 P/13<br>47°53′00″ 65°53′05″ | Two main sulphide deposits, the "Powerline" and "Beaver Pond" within Ordovician Fournier group mafic volcanics. The sul-phides occur in podiform masses, massive lenses and areas of disseminated and veinlet–type mineralization. | **1957**: Zn–Cu showing discovered.<br>**1958–60**: EM, mag, tr, dd.<br>**1964**: additional chalcocite showing discovered.<br>**1967–77**: VLF–EM, SP, IP, resistivity, magnetic, gravity, soil geochem, dd. Powerline deposit discovered by dd in 1977.<br>**1978–82**: geochem, geoph, dd.<br>**1984**: soil geochem, VLF EM, mag. | Drill ind: 1 500 000 mt at 4% Zn, 1.5% Cu in Powerline deposit.<br>(G L Davies et al, GAC Excursion 2, 1985) |  |

# QUEBEC

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 1 | MADELEINE ISLANDS<br>Can Salt CL,<br>Seleine Div.<br>11 N/4, 5, 12 | A series of at least three E–W steep anticlinal ridges of Windsor evaporite (Lower Mississippian) break through overlying Permo–Carboniferous sediments. The deposits contain gypsum and potash as well as common salt. | **1970**: an exploratory oil well sunk north of the islands struck a salt bed at 2743 m.<br>**1971**: 2 ddh and gravity survey.<br>**1973–75**: Soquem discovers 7 salt deposits by dd.<br>**1977–82**: shaft sunk 538' on Dauphin deposit; u/g dev. |  | Dauphin deposit went into production in September 1982, initially at the rate of 1.5 Mtp/y.<br>The mine along with the other Madeleine Is. deposits was sold in 1988 by Soquem to Can Salt CL. |
|  | a) Île d'Entrée<br>47°16.3' 61°41.9' |  |  | 312 million mt at 251 m depth. | The grade of these deposits exceeds 90% NaCl. In addition to the salt tonnages listed, there are an est 94 800 mt in 4 separate gypsum deposits that average 32.6% Ca and 45.9% $SO_3$, and the Havre–Aubert deposit contains 1 115 200 mt at 11.8% $K_2O$.<br>(Que DPV–707, 1979). |
|  | b) Havre–Aubert<br>47°13.1' 61°51.0' |  |  | 301 million mt at 102 m. |  |
|  | c) Bois–Brûlé<br>47°14.0' 61°55.8' |  |  | 143 million mt at 60 m. |  |
|  | d) Anse–à–la–Cabane<br>47°23.7' 61°58.0' |  |  | 14 million mt at 98 m. |  |
|  | e) Cap–aux–Meules<br>47°23.7' 61°51.0' |  |  | 27 million mt at 310 m. |  |
|  | f) Grosse–Île<br>47°37.0' 61°30.6' |  |  | 727 million mt at 265 m.<br>***1975***<br>(Soquem, 1975/76 AR) |  |
| QUE. 2 | MADELEINE ISLANDS SILICA<br>Magdalen Silica Inc<br>11 N/4, 5, 11<br>47°36' 61°22' (North)<br>47°15.5' 61°45' (South) | Two areas of marine beach sand offshore from Madeleine Is. The two areas are up to 10 sq mi each and nearly 30 mi apart.<br>The deposits are fairly uniform, averaging 0.2% $Fe_2O_3$ and 0.8–1.0% $Al_2O_3$. | **1962 and since**: sampling, beneficiation tests. | 100 million mt proven at 88% qtz, 11% feldspar and c 1 000 million mt ind at high–grade silica (Paper 56, CIM Ann Mtg, 1982) | Tests at CANMET showed suitability of products for foundry and abrasive uses.<br>A prospective 600 000 mt/y operation. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 3 | STORER–CAP–AUX–MEULES<br>Copper Rand Chibougamau ML (in 1958)<br>11 N/5<br>47°22.8′ 61°52.9′ | Pyrolusite, manganite and psilomelane occur as nodules, irregular masses and lenses in Mississippian limestone. | **c 1900**: small scale extraction and shipments.<br>**1940**: prospect shafts sunk with some u/g lateral work, bulk sample testing.<br>**1947**: limited mining by open cut and stockpiling, dd.<br>**1948**: resistivity, mag and SP surveys, shaft sunk 40′. | 27,333 lt dd–ind crude Mn ore, equivalent to 3,650 lt concentrate, plus 5,600 lt at 20.5% $MnO_2$ in stockpile equivalent to 800 lt at 48 + % Mn concentrate ***1948***<br>(Quebec Manganese ML, 1948 AR) |  |
| QUE. 4 | ALLARD LAKE NARROWS<br>WTE Res Inc<br>12 L/5<br>50°27.2′ 63°30.0′ | A sill of ilmenite–hematite intrudes anorthosite. | **1942**: disc.<br>**1944–46**: surf prospecting.<br>**1960**: mag and gravity surveys.<br>**1986**: sampling. | Poss: 2,000,000 at 80% (Fe + $TiO_2$) ***1961***<br>(Que GM–35767, 1961) | Tonnage est from gravity profiles. |
| QUE. 5 | ELLEN LAKE<br>WTE Res Inc<br>12 L/5<br>50°28′12″ 63°31′24″ | Massive Fe–Ti oxide lens in anorthosite. | **c 1942**: disc.<br>**1960**: mag and gravity surveys. | Poss: 2 176 000 mt at 70–75% (Fe + $TiO_2$) ***1961***<br>(Que GM–35767, 1961) | Tonnage est from gravity profiles. |
| QUE. 6 | POINTE–AUX–MORTS<br>QIT–Fer et Titane Inc<br>12 L/5<br>50°15.3′ 63°40.5′ | Dolomite of the Ordovician Romaine Fm lying unconformably on the Precambrian. | **1946**: dd, bulk sample testing. | ***(i) Pointe–aux–morts***: 23 405 000 mt at 20.5% MgO, 30.5% CaO, 0.92% $SiO_2$<br>***(ii) Becca***: 6 169 000 mt at 20.4% MgO, 30.8% CaO, 0.99% $SiO_2$ |  |
| QUE. 7 | DORAN<br>Lacana Mng Corp (in 1979)<br>12 L/8<br>50°21′ 62°20′ | A series of U deposits occupying mineralized tension fractures in augen gneiss. Prob remobilized from sediments. | **1977–79**: mag, rad, EM and geochem surveys; trenching, sampling. | 10 890 000 mt at 0.025% $U_3O_8$ ***1979***<br>(Que GM–33443, 1979) | Located 0.8 km west of Pashashibu R., in Costebelle township. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 8 | **ALLARD LAKE AREA**<br>QIT–Fer et Titane Inc<br>12 L/11, 5<br>50°32.5′ 63°24.9′<br>(Grader) | Massive dykes, sills, lenses and irregular bodies of ilmenite–hematite in anorthosite and norite of the Grenville Province. | **1941**: first discoveries of ilmenite in the area.<br>**1944–46**: prospecting, staking, dd.<br>**1947**: airborne mag survey.<br>**1950–51**: 150,000 tons ilmenite ore shipped from Grader o/p.<br>**1951–present**: o/p mng of Main Lac Tio deposit.<br>**1960**: mag–gravimetric surveys of individual deposits.<br>**1974**: sampling of Springer & Mills deposits.<br>**1981**: mag–gravimetric surveys of Springer deposit.<br>**1984–86**: Big Island deposit investigated for its rutile content.<br>**1986**: mag–gravity surveys of Anne Lake and Group 11. | ***(i) NW zone***: 5 080 000 mt at 37.40% Fe, 32.30% $TiO_2$<br>***(ii) Cliff***: 8 389 000 mt at 39.20% Fe, 33.90% $TiO_2$<br>***(iii) Grader***: 7 260 000 mt at 36.90% Fe, 32.00% $TiO_2$<br>***(iv) Mills***: 66 040 000 mt at 31.50% Fe, 27.30% $TiO_2$<br>***(v) Springer***: 55 990 000 mt at 36.00% Fe, 21.20% $TiO_2$<br>***(vi) Group 5***: 7 616 000 mt at 50–60% (Fe + $TiO_2$)<br>***(vii) Lac au Vent***: 27 700 000 mt at 70–75% (Fe + $TiO_2$)<br>***(viii) McRae***: 3 240 000 mt at high–grade of (Fe + $TiO_2$)<br>***(ix) Anne Lake***: 9 800 000 mt at 80% (Fe + $TiO_2$)<br>***(x) Group 11 (Lac Marteau)***: 10 900 000 mt at 70–75% (Fe + $TiO_2$)<br>***(xi) Lac Bat Le Diable***: 2 176 000 mt at 80% (Fe + $TiO_2$)<br>***1960***<br>(Que DV 85–08, 1985) | NW and Cliff zones are faulted–off segments of Lac Tio deposit that do not appear to have been mined. NW zone was being prepared for prod in 1987.<br>The Big Island deposit, occurring near Lac Bat Le Diable, is estimated to contain about 1 Mt at 41% $TiO_2$ with a high rutile content.<br>Most of the deposits listed here are distributed within a 16 mi by 8 mi area. Their tonnages–grades were estimated in 1960 on the basis of their mag–gravimetric characteristics, and are hence of potential category. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 9 | PUYJALON LAKE (EVERETT)<br>Rich Intntl Energies Inc & Atlantic Titanium Inc<br>12 L/11<br>50°33'12" 63°21'30" | Deposit of ilmenite, hematite and apatite, in anorthosite, 7,200' by 1,200'. | **1954**: surface work, metallurgical tests.<br>**1968**: dd.<br>**1972–73**: metallurgical and ore dressing tests.<br>**1986**: gravity survey. | Dd–ind: 230,000,000 at 17.9% Fe, 10.8% $TiO_2$, 3% $P_2O_5$, to 500' ***1968***<br>(CMH 1978–79, p 130) | Under option by Logo Res L in 1988. |
| QUE. 10 | JOSEPHIS LAKE<br>WTE Res Inc<br>12 L/12<br>50°32.5' 63°38.6' | Massive hemo–ilmenite lenses in a banded ilmenite–norite sequence contained by anorthosite. | **1946**: surf prospecting.<br>**1960**: mag and gravity survey.<br>**1986**: sampling. | Poss: 1,500,000 at 70% (Fe + $TiO_2$)***1961***<br>(Que GM–35767, 1961) | Tonnage est from gravity profiles. |
| QUE. 11 | MOE RIVER<br>Exploration Min Appalache Inc<br>21 E/4<br>45°14'31" 71°47'09" | Best values in alluvial gold in Moe River occur over a 9,000' stretch south of Compton village. The sources of gold are probably qtz veins in Lower Paleozoic sediments. | **1908**: gravels sampled.<br>**1939–40**: test pits in gravel over 9,000' x 650' area.<br>**1987**: seismic and geochem surveys, drilling. | 878,600 $yd^3$ at 0.018 $oz/yd^3$ Au ***1940***<br>(Que GM–9285, 1940) | A single spot sampling check by H W McGerrigle (1940) suggested that the grade may be much lower. |
| QUE. 12 | ALBERT (CAPELTON)<br>Lac Mnrls L (65%)<br>Explns Abior Inc (35%)<br>21 E/5<br>45°19.3' 71°54.8' | The original Albert mine had two pipe–shaped massive sulphide orebodies in sericite schist. | **1863**: discovery.<br>**1866–1907**: prod of c 300,000 tons pyritic ore from 4 shafts, the deepest 2,500' on the incline.<br>**1951–52**: surface dd.<br>**1984–85, 87**: sample tailings.<br>**1987–88**: dd. | 300,000 at c 3% Cu, to 500' ***1952***<br>(Ascot Metals Corp, 1952 AR) |  |
| QUE. 13 | ALDERMAC MOULTON HILL<br>International Thunderwood Explns L<br>21 E/5<br>45°24.5' 71°49.5' | Volcanogenic massive py with sph, cp, gal at felsic–mafic flow contact. | **1942**: discovery following SP survey, dd.<br>**1943**: shaft sinking, u/g dev.<br>**1944–45**: prod by Aldermac Copper Corp L.<br>**1949**: u/g dev resumed.<br>**1950–53**: prod by Ascot Metals Corp L; workings extended down to 10th level.<br>**1987**: tailings sampled. | 15,000 at 1.0% Cu when shut ***1953***<br>(Que PR 371, 1958) | Total ore milled: 350,000, with recovery of Zn, Cu, Pb, Au, Ag. Mining was costly because of narrow widths and weak HW. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 14 | EUSTIS MINE<br>Lac Mnrls L (65%)<br>Explns Abior Inc (35%)<br>21 E/5<br>45°19.1' 71°55.1' | Four principal pyritic lenses arranged en échelon in a carrot shaped zone, extending 8,000' down a 45° dip, in volcanics. Probably stratabound. | **1865–1939**: mined practically without interruptions to a plunge depth of 8,000'.<br>**1951–53**: dd.<br>**1963–64**: dd.<br>**1972**: geoph surveys, dd.<br>**1984–85, 87**: tailings sampled.<br>**1987–88**: dd. | 3,500,000 at 35% S, 1% Cu in the mine ***1939*** (NM 24/05/51)<br>***plus*** 100,000 at 1–1.5% Cu, 350' W of mine ***1972*** (Que MIQ 1972, p 88) | Sampling of the smelting residues, settling ponds and tailings suggested a modest content of Cu, Au, Ag, Zn and Pb. |
| QUE. 15 | SUFFIELD ZONE<br>Jack Stoch<br>21 E/5<br>45°19.7' 71°57.6' | Volcanogenic massive sulphs in Silurian rhyolite. | **1889–98**: three shafts, small ore shipments.<br>**1950–55**: dd, No. 4 shaft sunk 200' in 1955.<br>**1955–56**: small shipments.<br>**1968–69**: geochem, geoph, dd.<br>**1972**: dd on Silver Star. | Inf:<br>***(i) Silver Star***: 100,000 at 0.144 oz/t Au, 1.843 oz/t Ag, 4.25% Zn, 0.83% Cu<br>***(ii) #4 Shaft***: 70,000, 0.004 oz/t Au, 1.19 oz/t Ag, 3.96% Zn, 1.08% Cu, 0.45% Pb<br>***(iii) North Howard***: 57,000 at 0.005 oz/t Au, 1.12 oz/t Ag, 4.84% Zn, 0.21% Cu, 0.60% Pb<br>***c 1956***<br>(Copper Stack Res L, 1985 Prospectus) | In 1989, a 50% int was optioned by Noranda Exploration CL and 50% by Globex Mng Enterprises Inc. |
| QUE. 16 | CLINTON COPPER<br>21 E/7 | Five stratabound pyritic mass to dissemin deposits occur at a felsic–mafic volcanic flow contact, at intervals over 4 mi. | **Late 1930s**: discovery of 'A' deposit.<br>**1953**: 2 ddh on 'A'.<br>**1959–62**: ground mag, EM, dd.<br>**1966–71**: dd.<br>**1973–75**: decline driven on 'O' deposit and 126,191 at 2.61% Cu, 2.50% Zn shipped to the Cupra mill. |  | In 1985, Esso Mnrls Can did surface work on 'B', 'C', 'E' and 'F' deposits.<br>In 1985, 'C' and 'F' deposits were part of a property of Syndicat Mon Tour. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
|  | 'A'<br>45°27'24" 70°54'25" |  |  | 698,700 at 1.84% Cu, 1.58% Zn, 0.40 oz/t Ag ***1973*** |  |
|  | 'C'<br>45°26'41" 70°54'44" |  |  | 363,000 at 1.68% Cu, 0.60% Zn ***1973*** |  |
|  | 'E'<br>45°25'20" 70°55'34" |  |  | 54,500 at 1.77% Cu, 1.09% Zn ***1973*** |  |
|  | 'F'<br>45°24'12" 70°56'08" |  |  | 280,000 at 2.14% Cu, 1.52% Zn ***1973***<br>(Sullivan Mng Gr L, 1973 and 1974 ARs) |  |
| QUE. 17 | LINGWICK<br>Soquem<br>21 E/11<br>45°39.3' 71°23.0' | Volcanogenic sulphide deposit at the contact between felsic and mafic volcanics. | **1968–70**: geochem and geoph surveys, dd. | Dd–ind: 350,000 at 6% Zn, 0.6% Cu, 0.5 oz/t Ag ***1970***<br>(Soquem, 1970/71 AR) |  |
| QUE. 18 | ST ADRIEN MOUNTAIN<br>Wolfe Asbestos & Magnesium ML (in 1976)<br>21 E/13<br>45°50.2' 71°41.7' | Asbestos fibre of good quality, but short, in an isolated lens of serpentinized peridotite. | **1900–30**: intermittent o/p excavation, shipments.<br>**1943–49**: adit with 2,700' total lateral advances, dd, bulk sampling and testing.<br>**1952–53**: 2,200 t/d mill erected, treated 171,000 tons from o/p before bank-ruptcy stopped operation.<br>**1957–58**: additions to mill, test treatment from new o/p, some fibre shipments, then plant removed.<br>**1967–76**: small intermittent prod of asb fibres and Mg-rich dust (soil conditioner) from dumps. | 23,000,000 at 7% Asb (55% gps 6–9, 30% gp 5) c ***1948***<br>(H M Woodrooffe, CANMET unpubl rept 4/05/59)<br>***or*** 9,000,000 at 5.1% Asb (NM 18/12/58) | The larger estimated tonnage was contained in 1,800' x 700', to 760'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 19 | SOUTH HAM ANTIMONY<br>Ress Min Andromède inc<br>21 E/13<br>45°51.0′ 71°32.0′ | Native antimony with minor stibnite and kermosite in qtz veins in greywake. Prob hydrothermal origin. | **1863–81**: sporadic, small scale mng from cuts and 2 shafts.<br>**1886**: u/g lateral workings extended.<br>**1951**: dd.<br>**1971–72**: dd; u/g drifting and sampling.<br>**1987**: soil and rock geochem. | 75,000 at 2% $SbO_2$ ***1971***<br>(NM 27/05/71) |  |
| QUE. 20 | TROYSCO (HAM–NORD)<br>Flintkote ML (in 1973)<br>21 E/13<br>45°53.2′ 71°42.1′ | Deposit consists of 1/16 inch to 3/16 inch long cross–fibre chrysotile as veinlets in a small isolated body of ultrabasic rocks. | **1889**: surface work.<br>**1952–53**: dd, adit driven, and bulk sample mill–tested.<br>**1955**: dd.<br>**1973–74**: dd; bulk sample testing. | 2,500′ x 1,500′ to 400′ at 5.6% Asb, mainly in 7, 6 and 5 groups ***1953***<br>(Que ES–14, p 81, 1973) | Asarco dropped its option after reviewing the results of its work on the property in 1973–74. |
| QUE. 21 | CONTINENTAL (MEGANTIC)<br>Continental Asbestos ML (in 1952)<br>21 E/14<br>45°59′06″ 71°23′32″ | Chrysotile asbestos in serpentinized peridotite. | **1886–89**: small output of crude.<br>**1921–29**: 187,000 mined by o/p.<br>**1947**: pit dewatered, dd.<br>**1951–52**: 82,000 milled. | 500,000 at 5% Asb in groups 4, 5, 7 ***1950***<br>(Que ES–14, p 92, 1973) | Less 82,130 milled in 1951–52. |
| QUE. 22 | CUPRA–D'ESTRIE<br>Cambior Inc<br>21 E/14<br>45°46.4′ 71°18.8′ | Stratabound volcanogenic massive sulphide deposit, elongated at least 6,000′ down 45° dip, 300′–900′ horizontal length, avg. 3′ thickness. Cupra section of the deposit is above 2,522′ depth; d'Estrie section is below. | **1960**: discovery by dd of EM anomaly.<br>**1962–69**: shaft and winze sunk 4,725′ with 28 levels.<br>**1965–77**: 2,628,822 milled with recovery of Cu, Zn, Ag, Au, Pb, Cd, Bi. | 687,000 at 2.75% Cu, 1.48% Zn, 0.47% Pb, 0.015 oz/t Au, 1.10 oz/t Ag ***1977***<br>(Sullivan Mng Gp L, 1977 AR) | Some exploration in the Cupra–Weedon belt was conducted in 1986–87 jointly by Noranda, Sullivan and FinNeth. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 23 | GILMONT<br>Explns Abior Inc & FinNeth Expl Inc<br>21 E/14<br>45°57'25" 71°23'56" | Slip and cross fibre chrysotile in serpentinite. | **1949–53**: dd, mag survey, pits.<br>**1987**: soil geochem. | Dd–ind: 2,400,000 at 8.05% Asb in groups 4, 5, 7 to 300' ***1953***<br>(H S Wilson 16/07/56 ***in*** Prospectus, Gilmont ML, 1956) |  |
| QUE. 24 | WINDSOR (AYLMER)<br>Aylmer ML<br>21 E/14<br>45°57'33" 71°19'38" | Slip–fibre and cross–fibre chrysotile asbestos veinlets in serpentinized dunite. | **1914–16**: pit sinking.<br>**1921**: small prod.<br>**1922**: surface and u/g exploration, dd.<br>**1948–52**: dd.<br>**1952–53**: mng and test milling.<br>**1963–64**: mag survey and dd.<br>**1971**: feasibility study. | 5,000,000 at 9% or $6.00/t Asb ***1964***<br>(Que ES–14, p 95, 1973) | Pilot studies (1953) gave poor results. Feasibility study (1971) results have not been published. |
| QUE. 25 | MT. ST–SEBASTIEN (COPPERSTREAM–FRONTENAC)<br>JAG ML<br>21 E/15<br>45°46' 70°55' | Two zones 3,000' apart. South zone: 950' x 360' area where disseminated moly occurs in qtz and feldspar veins cutting granitic dykes. North zone: 1,000' x 450' area of sediments cut by qtz veins rich in moly. | **1910–20**: trenching.<br>**1941**: test shipment.<br>**1956**: mag survey, dd.<br>**1961**: adit driven.<br>**1962–64**: u/g sampling, bulk sampling, drilling.<br>**1974**: trenching.<br>**1986**: stream sed sampling. | ***South zone***: 701,000 ind at 0.558% $MoS_2$ ***or South & North zones***: 2,000,000 inf at 0.50% $MoS_2$ ***1963***<br>(SB Bond 02/63, rept to Molybdenum Corp of America) |  |
| QUE. 26 | BEAUCE PLACER<br>The Coniagas ML & Ress Macamic Inc<br>21 L/2<br>46°13.4' 70°40.2' | Placer gold in a pre–glacial channel of Gilbert River, a tributary of Chaudière River. Underlain by Cambrian, Ordovician and Devonian rocks. | **1823**: placer gold reported.<br>**1847–65**: sporadic prod.<br>**1865–95**: prod 75,000 oz Au.<br>**1910–13**: exploration.<br>**1957–61**: extensive churn drilling.<br>**1961–65**: dredging, minor prod.<br>**1984–85**: testing.<br>**1985, 87**: reverse circ drilling, tr, sampling. | Pot: 17,000,000 cu.yds. at 22.4¢/yd (Au @ $35/oz) ***1959***<br>(Beauce Placer Mng CL, 1959 AR)<br>***or*** prov & ind: 53,827 oz Au in gravels of 0.035 $oz/m^3$<br>(Info–Explo 2/05/88) | Clay from marine strata overlying the placer gravels caused serious recovery problems during dredging operations in 1961–65. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 27 | ASBESTOS CORP – "OTHER RESOURCES"<br>Asbestos Corp L<br>21 L/3 (mainly) |  |  | a) Proven: 16 257 000 mt Asb ore<br>b) prob & poss: 220 000 000 mt Asb ore<br>***1983***<br>(Asbestos Corp L, 1983 AR)<br>**Note**: both a) and b) tonnages above, were removed from Asbestos Corp L Ann Rept in 1984 as uneconomic. | a) In deposits other than King Beaver, British Canadian, Normandie–Penhale and Asbestos Hill; probably all in Thetford area.<br>b) Includes prob and poss categories in King–Beaver, British Canadian, Penhale and Asbestos Hill mines, and any other properties held by the company; probably mostly in Thetford area. |
| QUE. 28 | ASBESTOS PRODUCERS<br>Asbestos Corp L<br>21 L/3<br>46°03'09" 71°19'33" | Chrysotile asbestos in serpentinized peridotite. | **1890**: staked.<br>**1901**: prospecting.<br>**1927**: dd.<br>**1946–48**: dd, 85' shaft.<br>**1950–51**: mag survey, dd.<br>**1954–55**: dd. | 4,500,000 at 5–6% Asb available by o/p and 8,000,000 available u/g<br>***1955***<br>(Que ES–14, p 91, 1973) |  |
| QUE. 29 | "C" VIMY RIDGE<br>Asbestos Corp L<br>21 L/3<br>46°00'58" 71°24'48" | The southernmost and smallest of the Vimy Ridge deposits, with a diameter of 400' and depth of 100'. Possibly an erosion remnant of a large deposit. Cross–fibre chrysotile in serpentinized peridotite. | Unknown. Discovered pre–1954. | 4–6 000 000 Asb ore<br>(O Vagt, MPS, oral 1988) | The grade of nearby Normandie mine was about 5% fibre, mainly in group 4. |
| QUE. 30 | CARIBOU<br>Asbestos Corp L<br>21 L/3<br>46°01'00" 71°20'25" | Chromite lenses, both massive and disseminated, in dunite, occur in a zone 1,200' long and up to 170' wide. | **1894–1909**: small o/p prod.<br>**1916–20**: prod from o/p and two levels u/g.<br>**1937**: dd.<br>**1942**: dd. | 40,730 at 25.2% $Cr_2O_3$<br>***1942***<br>(C H Stockwell 7/10/43, GSC unpubl memo) | Grade visually estimated in drill cores. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 31 | HALL MINE<br>Expln Coleraine Inc<br>21 L/3<br>46°02'44" 71°16'58" | Chromite in veinlets and diss bodies in serpentinized dunite of the Thetford Mines ophiolitic complex. | **1903**: disc.<br>**1918–19, 42–43**: small prod.<br>**1987**: dd, gravity survey. | 1 500 000 mt poss at 4.5% $Cr_2O_3$, 0.3 g/t Pt ***1988***<br>(R Lamarche, APQ CA 16/09/88) | Lesser tonnages were possibly outlined on the nearby Lemelin and Stewart deposits which along with Hall form part of the 'Coleraine property'. |
| QUE. 32 | MONTREAL MINE<br>Carey Canada Inc<br>21 L/3<br>46°12'28" 71°07'18" | The mine occurs within a bulge of the L Ordovician Pennington dyke, due to cross-folding, and consists of a talc carbonate schist. | **1908–10**: test pits on Asb showings.<br>**1928–31**: pre–prod dev.<br>**1931–45**: Asb mining, mainly by o/p.<br>**1978–83**: intermittent Asb mining. | 5–8,000,000 mt at 78–80% talc<br>(Que DV 88–01, p 169, 1988) | The talc deposit, said to be 85–90% recoverable, occurs in the northwest wall of the former asbestos mine, also known as the Carey A deposit. |
| QUE. 33 | NATIONAL ASBESTOS<br>Lac d'Amiante du Que L<br>21 L/3<br>46°08.3' 71°15.2' | The mine occupies a 3,000–foot segment of the Pennington dyke, an incompletely serpentinized peridotite. Cross fibre was prevalent with only minor amounts of slip fibre. | **1886**: original discovery.<br>**1947**: dd, test shipments.<br>**1958–Nov 1985**: o/p prod fibre in concentrator on site. | Proven & prob: 1,653,000 at 5.00% Asb ***1985***<br>(Asarco Inc, 1985 AR) |  |
| QUE. 34 | NORMANDIE–PENHALE<br>Asbestos Corp L<br>21 L/3<br>46°01.3' 71°24.3' | Penhale is the northernmost of the three major Vimy Ridge deposits and the only one entirely under the bed-rock surface, occurring down–plunge of the Normandie deposit. In serpentinized peridotite. Penhale's cross–fibre is relatively soft and mainly in the longer to intermediate grades. | **Pre–1965**: Penhale discovered during outlining of Normandie deposit.<br>**1965–68**: dd.<br>**1969–71**: shaft sunk 1,645', dd u/g. Probably more surface dd since. | Proven: 37 012 000 mt Asb ore at unstated grade ***1984***<br>(Asbestos Corp L, 1985 AR) | The majority of the tonnage is in the Penhale deposit mineable u/g but some ore is available by o/p. The milling ore of the Normandie o/p mine graded about 5% fibre, mainly in group 4. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 35 | PROVENÇAL<br>Lac d'Amiante du Que L<br>21 L/3<br>46·01.0' 71·20.6' | Deposit is exposed on the suface as 8 lenses of disseminated to massive chromite in serpentinized dunite, within an area of 400' x 120'. | **1894–96**: mining in 5 pits.<br>**1942**: stripping, trenching, sampling. | 40,600 at 14% $Cr_2O_3$ to 100' ***1942***<br>(C H Stockwell, 10/02/43 GSC unpubl rept) |  |
| QUE. 36 | REED–BÉLANGER (CHROMERAINE)<br>Gateford Res Inc & Macamic Res Inc<br>21 L/3<br>46·00.7' 71·20.6' | Banded, disseminated chromite in serpentinized dunite, traced 2,000' along strike, up to 60' wide. The largest known chromite deposit in Quebec, comprised of Reed (western) and Bélanger (eastern) segments. | **1894–96**: small scale o/p mng.<br>**1915–21, 1923**: prod from o/p and u/g (1919–20).<br>**1924**: dd.<br>**1942**: dd, new shaft sunk 480', mill erected.<br>**1943–44**: prod of 165,000 ore by Wartime Metals Corp.<br>**1987**: re–evaluation. | *(i)* ***Reed***: 450 000 mt<br>*(ii)* ***Bélanger***: 550 000 mt, both at 10% $Cr_2O_3$, to 115 m<br>***1987***<br>(Que DV 88–01, p 170) | Total production to date was c 300,000 at 10% $Cr_2O_3$, mainly from the Reed section.<br>The recent estimates of the remaining tonnage–grade are based on a study of records of Wartime Metals Corp. |
| QUE. 37 | CAREY<br>Carey Canada Inc<br>21 L/6<br>46·15"11' 71·01'48" | 'E', 'D' and 'T' Asb deposits occupy successive segments of the Pennington dyke within its northwestern–most 3 miles. The deposits carry about 15% fibre, of which 90% are fines (gps 6 and 7) and 10% are in gps 4 and 5. | **1949–52**: disc by a mag survey and dd.<br>**1958–86**: mining of nearby 'C' and 'B' deposits. | Several million tons at 15% Asb, mainly fines in 'D', 'E' and 'T' deposits. | Before mining started of 'C' and 'B' deposits, more than 50 million tons had been indicated in 5 deposits. Three of these, 'D', 'E' and 'T', were not mined and were delisted from Carey's reserves c 1983. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 38 | HARVEY HILL<br>International Larder Mnrls Inc<br>21 L/6<br>46°15′50″ 71°12′25″ | Bornite, cp and secondary chalcocite in schistosity planes and qtz–carbonate veins in Cambrian metasediments; probably derived from remobilization of original sedimentary sulphide deposits. The talc deposit occurs in the northeast part of the L Ordovician Pennington dyke. | **c 1850**: Cu discovery.<br>**1858–99**: intermittent small prod from several shafts and adits.<br>**1951–52**: geoph surveys, dd.<br>**1955–57**: u/g dev.<br>1973: u/g dev, mill construction.<br>**1974–76**: produced some 2,300 tons Cu plus Ag, Au from 175,000 tons milled. | ***(i)*** 450,000 at 1.56% Cu ***1976*** (Que DP–346(v), pt A, p 10, 1976)<br>***or*** 350,409 proven at 1.51% Cu (diluted) ***1980*** (NM 09/10/80)<br>***(ii)*** prov–prob–poss: 7,207,216 talc to 250′ ***1985*** (Amalgam brochure: Larder Res Inc & Flying Cross Res Inc, 28/02/86) |  |
| QUE. 39 | CRANBOURNE<br>Aurochs, Soc d'Expl Min Inc<br>21 L/7<br>46°22.7′ 70°38.2′ | Chrysotile asbestos in serpentinite. | **1921**: discovery.<br>**1949–56**: dd and trenching; some 3,000 tons tested in a pilot mill on the property and outside.<br>**1987**: mag, IP and geochem surveys, dd. | Ind: 35,000,000 at 7.25% Asb ***1952*** (NM 4/12/52)<br>***or*** 10,500,000 at 4 + % Asb to 330′ ***1955*** (NM 19/07/56) | Asbestos is probably short slip–fibre. Work in 1987 was in search of PGE. |
| QUE. 40 | GOLDEN AGE<br>Aurochs, Soc d'Expl Min Inc<br>21 L/7<br>46°15′25″ 70°48′44″ | Mainly slip–fibre chrysotile, with minor cross–fibre, in several lenses of serpentinized ultrabasic rocks. | **Pre–1862**: discovery.<br>**1904–07**: trenching.<br>**1949**: mag survey.<br>**1951–58**: drilling, pit sinking, bulk sample tests.<br>**1958–62**: 15,000 tons treated in mill on property.<br>**1987**: mag, IP and geochem surveys, dd. | Proven: 2,040,960 at $9–14 Asb/ton; ind: 4,796,258; prob: 12,665,250 ***1961*** (Golden Age ML, 1961 AR) | The fibre is short, low in impurities, and of nearly white colour. Recent exploration was in search of PGE. |
| QUE. 41 | PANET METALS (CHAMPAGNE)<br>Golden Hope ML<br>21 L/9<br>46°35.3′ 70°13.0′ | Several sulphide–rich lenses up to 500′ long in slate. Py, sph, cp, gal. | **1952–53**: geoph surveys, trenching, dd. | 300,000 at 2.67% Zn, 0.40% Cu, 0.43% Pb, 0.06 oz/t Au, 0.58 oz/t Ag to 300′ ***1954*** (CMH 1954, p 151) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 42 | ST–FABIEN COPPER (EASTERN METALS)<br>Noranda Expl Co (option)<br>21 L/9<br>46°39.1′ 70°12.7′ | Two separate pyritic zones 500′ apart. Ni–rich zone contains millerite, nickeliferous py, gersdorffite and secondary violarite, as well as sph. The cp–rich zone contains some bornite and secondary chalcocite. Both deposits occur in silicified and carbonitized zones at the contact between slate and serpentinized peridotite, and are regarded as volcanogenic. | **1949**: discovery.<br>**1950–52**: dd.<br>**1952–57**: shaft 1,233′ deep with 8 levels; lateral advances and dd; Ni zone prepared for mng.<br>**1960–61, 1964**: dd.<br>**1967**: workings dewatered; bulk samples taken and tested by J P Sheridan interests.<br>**1980**: technical evaluation by Quebec Manganese M Inc.<br>**1987–88**: geoph and geochem.<br>**1988**: 4 ddh in North zone. | ***(i) North***: 350 000 mt at 1.3% Zn, 0.8% Ni<br>***(ii) South***: 870 000 mt at 1.5% Cu, 0.3% Zn, 0.2% Ni<br>***1956***<br>(Que DV 88–01, p 182; 1988) | In 1967 metallurgical tests gave poor Ni recoveries in North zone due to the presence of talc in ore and of Zn in concentrate, while recalculation of South zone substantially reduced the estimated mineable tonnage. |
| QUE. 43 | PORTNEUF<br>Portneuf Mnrl Corp (in 1960)<br>21 L/12<br>46°41.6′ 71°55.7′ | Pegmatite in Grenville granitic gneiss contains biotite, qtz, feldspar and moly. | **Pre–1955**: discovery and trenching.<br>**1953**: stripping, pit excavation.<br>**1954**: limited dd. | 4,500,000 at 0.30% $MoS_2$, 40% biotite ***1954***<br>(FP Surv Ms 1960, p 309) | Potential tonnage is probably much less, the estimate being based on *insufficient data*. |
| QUE. 44 | LEEDS METALS<br>JAG ML<br>21 M/10<br>47°43.3′ 70°41.7′ | A quartzite member, consisting of alternating white and pink bands, within a garnet–sillimanite gneiss. The drill indicated resources cover a block of 2,800′ by 400′ by 500′ deep. | **Pre–1964**: pits sunk.<br>**1964–65**: dd, bulk sampling and testing.<br>**1981–82**: beneficiation tests.<br>**1984**: sampling.<br>**1986**: dd. | Dd–ind: 33,000,000 at 98.69% $SiO_2$ ***1965***<br>(Que GM–16813, 1965) | Bench scale mill tests indicated low cost beneficiation to >99% $SiO_2$ and <0.05% Fe oxides, but the raw material grade is lower than of the quartzite currently quarried at nearby Petit Lac Malbaie.<br>In 1989, the company was to put up a pilot mill to produce optical grade purified silica. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 45 | ST–URBAIN<br>Soquem<br>21 M/10<br>47°32.3′ 70°33.4′ | Several lode deposits of massive ilmenite, in the form of dykes and vein swarms, cut anorthosite and are confined to a one square–mile area, in the southern sector of the 18 mi by 12 mi body of St–Urbain anorthosite. | **1666 or before**: discovery.<br>**1872–74**: Furnace deposit worked.<br>**1900–09**: intermittent test shipments.<br>**1910–18**: prod.<br>**1928–32**: small shipments.<br>**1940–46**: some 200,000 shipped as titania source.<br>**1957–65**: more than 300,000 shipped to concentrator at Baie St–Paul, for aggregate use.<br>**1972–75**: re–evaluation and ore treatment tests.<br>**1977**: 53,000 mined by Houston Aggregate Co of Can L from Bignell. | 22,836,000 at 28.4% Fe, 30.5% $TiO_2$, (aggregate of those listed below)<br>***1974*** |  |
|  | Bignell |  |  | 3,400,000 at 34.3% Fe, 34.9% $TiO_2$ | Less 53,000 mined in 1977. |
|  | Dupont |  |  | 2,500,000 at 31.1% Fe, 33.6% $TiO_2$ |  |
|  | Coulombe E |  |  | 7,400,000 at 26.6% Fe, 29.7% $TiO_2$ |  |
|  | Coulombe NW |  |  | 36,000 at 29.8% Fe, 32.8% $TiO_2$ |  |
|  | General Electric |  |  | 7,200,000 at 27.3% Fe, 29.2% $TiO_2$ |  |
|  | Other Deposits |  |  | 2,300,000 at 26% Fe, 27% $TiO_2$<br>(Que TT, 1978) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 46 | PETIT LAC MALBAIE C<br>Soquem<br>21 M/15<br>47°45'45" 70°38'11" | A qtzite band averages 250 m in width and has been traced at least 2 km on strike between garnet–sillimanite gneisses and charnockitic migmatites. | **1971**: described and sampled by J Rondot.<br>**1977–78**: small–scale extraction.<br>**1979–81**: sampling, dd, prelim marketing and infrastructure studies by Soquem. | 52 600 mt at 99.50% $SiO_2$, 0.36% $Al_2O_3$, 0.06% $Fe_2O_3$ ***1981***<br>(Que GM–37749, 1981) |  |
| QUE. 47 | MID–PATAPEDIA<br>Noranda Expl L<br>21 O/14<br>47°52.0' 67°23.5' | Disseminated to massive po, cp, sph and gal in skarn. | **1967**: mag, EM, soil surveys.<br>**1968**: stripping, trenching, dd.<br>**1971–73**: IP, gravity and mag surveys, dd by Imperial Oil. | 4,000,000 at 0.25–0.30% Cu, 0.5 oz/t Ag ***1968***<br>(NM 4/07/68) | Resource estimation based on 4 ddh only. |
| QUE. 48 | ARSENAULT LAKE<br>Cristobal Res Inc (65%)<br>Aggressive Mng L (34%)<br>22 A/6<br>48°22.2' 65°13.5' | Several lenticular qtz veins in sandstone, branching off Grand–Pabos fault, contain gal and sph with strong Au and Ag values. | **1938**: discovery.<br>**1972**: silt and VLF surveys.<br>**1973–74**: trenching, sampling.<br>**1975–76**: geochem, geoph, dd.<br>**1977–78**: dd, bulk sampling.<br>**1987**: geoph and geochem surveys, dd. | Ind: 200 T/VF at 0.45 oz/t Au, 5.75 oz/t Ag, 6.6% Pb, 3.5% Zn ***1975***<br>(NM 23/10/75) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 49 | MINES GASPÉ<br>Noranda Inc<br>22 A/13, 14<br>48°58′ 65°31′ | The Copper Mountain deposits consist of stockworks of py–cp veinlets, overall pipelike, in a Devonian granitic stock. Part of the deposit is oxidized. The E–32 is a stratiform py–po–cp deposit in altered limestone (skarn and calc–silicate hornfels) which underlies the Needle Mtn 'C' zone by 210 m and the town of Murdochville by 600 m. | **1921–37**: original prospecting and discoveries.<br>**1938–40, 1948–49**: dd.<br>**1952–55**: preprod dev of Needle Mtn deposits, building of smelter and concentrator.<br>**1955–87**: o/p and u/g prod from Needle Mtn deposits.<br>**1968–81**: o/p prod from Copper Mtn deposits, ended due to low Cu price and high waste/ore ratio.<br>**1980**: discovery by dd of E–32.<br>**1980–86**: surf and u/g dd and dev of E–32.<br>**1986–87**: prod from E–32, susp due to fire u/g.<br>**1989**: prod from E–32 resumed. | ***(i) Copper Mtn***:<br>35,008,000 proven sulph at 0.37% Cu, 0.016% Mo; 43,107,000 prob sulph at 0.48% Cu, 0.023% Mo; and 22,968,000 proven oxide at 0.44% Cu ***1982***<br>(CMH 1983–84, p 254)<br>***(ii) Needle Mtn.***:<br>2,399,000 at 2.16% Cu, 0.03% Mo<br>(CMH 1988–89, p 338) |  |
| QUE. 50 | PEKAN<br>Soquem<br>22 A/13<br>48°51.9′ 65°58.0′ | Py, cp, sph, bornite and moly disseminated in skarn over an area of 3,000′ x 1,000′. A multitude of barren acidic dykes dilute and give erratic tenors within the area of mineralization. | **1963–65**: mag, IP and geochem.<br>**1965–70**: over 150,000′ dd.<br>**1968–69**: adit workings advanced 4,855′.<br>**1988**: dd. | 3–4,000,000 at 0.8% Cu or 12,000,000 at 0.4% Cu ***1969 or*** 560,000 at 1.4% Cu ***1976***<br>(Que DPV–494, p 52, 1977) | Erratic mineralization creates practical mng problems. |
| QUE. 51 | BASKET RIVER<br>R Assad<br>22 B/2<br>48°05.8′ 66°46.9′ | A skarn deposit, 1,000′ in diameter, contains cp and bornite as disseminations and fracture fillings. | **1967–68**: stream sediment sampling; discovery.<br>**1968–70**: surface sampling, dd. | Ind: 170,000 at 0.57% Cu, 0.25 oz/t Ag ***1970***<br>(Que GM–26043) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 52 | ST–VIANNEY<br>Uniquartz Inc<br>22 B/11<br>48°36.9′ 67°22.0′ | In Silurian sandstone (orthoquartzite) of the Val–Brillant Fm. | **1981–84**: dd, tests.<br>**1985–86**: bulk tests to produce Si metal and ferrosilicon. | 25 million, incl 5.5 million of superior chemical quality (99.1% $SiO_2$)<br>(Que DV 89–01, p 165, 1989) | Expected uses are as foundry sand, in glass making, and in the production of ferrosilicon and silicon metal. A silicon metal plant was to be constructed at Amqui. |
| QUE. 53 | ST– DENIS MANGANESE<br>E Bouchard (in 1985)<br>22 B/14<br>48°51.0′ 67°13.0′ | Manganese nodules up to 0.5″ across are disseminated in the soil beneath vegetal cover; in marshy places the nodules aggregate into firm porous layers several inches thick. The underlying bedrock consists of Ordovician basic volcanics and impure sandstones. | **1939**: staked.<br>**1949–50**: analysis of samples.<br>**1956**: shallow dd.<br>**1974**: geoph survey. | ***(i) Zone 1***: 116,400 at 8.2% Mn<br>***(ii) Zone 2***: 15,800 at 13.1% Mn<br>***(iii) Zone 3***: 14,200 at 9.7% Mn<br>***1957***<br>(Que GM–5147A, 1957) |  |
| QUE. 54 | FEDERAL<br>Cambior Inc<br>22 B/16<br>48°46.4′ 66°08.2′ | Numerous, mostly barren, qtz veins cut Lower Devonian sediments on this large property. Some veins contain sph, gal, cp and carbonate. | **1909**: discovery of Federal vein.<br>**1916–22**: several shafts and adits; shaft on Federal vein to 285′ with 2 levels; sampling.<br>**1925–27**: discovery of S Brandy Brook, dd.<br>**1950–53**: dd and adit on S.B.B.<br>**1962–63**: geoph work, dd.<br>**1973**: dd.<br>**1980**: geoph, geochem, 2 ddh.<br>**1985**: minor dd. | ***(i) Federal vein***: 40,000 at 4.40% Zn, 0.71% Pb<br>***(ii) South Brandy Brook***: 600,000 at 3.95% Zn, 1.31% Pb<br>***1953***<br>(East Sullivan ML, 1953 AR) | The property was to be dealt to another company by Cambior in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 55 | MT OLIVINE<br>Conwest Expl Co L<br>22 B/16<br>48°54'40" 66°07'00" | Fresh olivine in layers of dunite at the east perimeter of the Mt Albert ultramafic complex. | **1966**: discovery.<br>**1975–76, 1979**: feasibility studies. | 75,000,000 at 90% olivine ***1975***<br>(Que DP–346(v), pt 8, p 4, 1976; Que GM–30272) | Olivine for use in refractories. Eventual extraction would be by quarrying at 100–200,000 t/y. |
| QUE. 56 | KONTIKI<br>Kontiki Lead & Zinc ML (in 1976)<br>22 C/4<br>48°01.2' 69°59.4' | Muscovite and biotite occur both in metasedimentary schists and gneisses and in bodies of pegmatite. Largest muscovite crystals are found in the vicinity of bodies of white pegmatite. | **c 1911**: mica mined on a small scale.<br>**1973**: optioned and mapped by Kontiki.<br>**1974–75**: dd, bulk sampling and testing by S.E.R.E.M. for both muscovite and feldspar. | Poss: 2,000,000 at 20% muscovite plus 350,000 at 15% muscovite ***1973***<br>(Que GM–29639, 1973) | Average grade visually estimated; later re–estimated at 8%. A re–evaluation in 1976 showed the mica to have poor colour and contain inclusions. |
| QUE. 57 | ST FABIEN (ROY–ROSS)<br>Les Mines Roy et Ross Inc<br>22 C/7<br>48°16.9' 68°53.0' | A number of barite veins, some containing dis gal, cut Lower Ordovician sandstones. | **1951–55**: disc trenching.<br>**1956**: adit on Zones 1 and 2, dd.<br>**1961–63**: adit extended; bulk sample tested.<br>**1975**: dd.<br>**1981–82**: geochem and gravity surveys. | ***(i) Zone 1***: 50 000 mt at 40% barite<br>***(ii) Zone 2***: 60 000 mt at 28% barite<br>***(iii) Zone W***: 18 000 mt at 98% barite<br>(Que GM–12740, 1962)<br>***or*** 179 200 mt assured at 16.6% $BaSO_4$ plus 87 400 mt assured at 3.4% Pb<br>(Que GM–11110, 1962) |  |
| QUE. 58 | K–NUTS<br>Daishowa Inc<br>22 D/10<br>48°42' 70°50' | Magnetite–ilmenite in anorthosite. | **1963**: dd.<br>**1980**: mag survey. | 3,500,000 at 48.98% Fe, 18.98% $TiO_2$, 0.67% $V_2O_5$ ***1963***<br>(Que GM–14082, 1964) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 59 | ST–CHARLES<br>Canhorn Mng Corp<br>22 D/11<br>48°31.1′ 71°27.9′ | Lenticular bodies of titaniferous magnetite, some with up to 30% apatite, occur in gabbroic anorthosite in an area 6,000′ x 1,200′. | **Pre–1884**: discovery.<br>**1912**: sampled.<br>**1948**: sampled.<br>**1951–55**: dd, ore dressing tests.<br>**1961–63**: dd.<br>**1972**: metallurgical tests.<br>**1974**: studied as phosphate prospect.<br>**1977**: dd. | 6,096,000 lt at 29.47% Fe, 10.1% $TiO_2$, 0.10% $V_2O_5$<br>(Que GM–30853, 1973)<br>*or* 2,700,000 at 34.8% Fe, 9.6% $P_2O_5$, 12.8% $TiO_2$<br>(Canhorn Mng Corp, 1986 AR) | Investigated in recent years as a phosphate prospect. Tests produced a phosphate conc grading 41.4% $P_2O_5$, 0.06% $TiO_2$, 0.03% Fe, 1.14% REE. |
| QUE. 60 | BRÛLÉ (LISE) LAKE<br>Daishowa Inc<br>22 F/5<br>49°23.0′ 69°58.2′ | Several lenses of massive ilmenite–hematite, up to 100′ thick occur conformably in gneissic andesine anorthosite. | **1956, 1964**: dd, sampling.<br>**1975–76**: dd under option by Houston Aggregate Co of Can L. | Prob: 5,528,000 plus poss: 1,000,000 at 42% Fe, 35% $TiO_2$ ***1964***<br>(J A Francoeur, Reed ML, 12/02/79 oral commun) |  |
| QUE. 61 | CHESNAYE LAKE<br>Géoconseils Jack Stoch L<br>22 F/8<br>49°17.2′ 68°15.2′ | A qtzite member in Grenville rocks traced 7 mi along the crest and limbs of a plunging anticline. | **1934**: reported by Faessler.<br>**1957**: dd.<br>**1969–70**: trenching, sampling, dd.<br>**1970–71**: feasibility study, testing.<br>**1975**: sampling and dd. | 3,500,000 at 98 + % $SiO_2$ (98% cut–off) to 150′, with a potential of several hundred million tons ***1969***<br>(CIM Bull, Nov 1971, p 88) | Tests showed that the material meets specifications of glass manufacturers after upgrading by magnetic separation. Content of $Al_2O_3$ can be reduced below 0.20% and of Fe to below 0.02%. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 62 | CANDEGO MINE<br>Explns Abior Inc<br>22 G/1<br>49°03.8' 66°04.1' | A number of qtz–carb Pn–Zn veins occur along or near Candego fault, a schistose sericite–chlorite–hydrocarbons zone cutting Lower Ordovician slates and sandstones. In addition to gal and sph, sulphs (minor) incl po, cp, tetrahedrite and bournonite. | **1916–44**: sporadic surface work.<br>**1945–47**: preprod work; erection of 50 t/d mill.<br>**1948–54**: mng and milling from 7 adits and open cuts of 70,000 at 6.35% Pb, 4.28% Zn, 5.19 oz/t Ag and 0.02 oz/t Au.<br>**1956**: geoph survey, minor u/g dd.<br>**1966**: EM survey, 20 ddh.<br>**1985**: VLF EM survey, resampling of adits. | 5,000 in place at unstated grade (Que DV 88–01, p 213, 1988) | Two samples from the waste dump averaged 0.04 oz/t Au, 0.43 oz/t Ag. |
| QUE. 63 | MADELEINE MINE<br>Madeleine ML<br>22 G/1<br>49°00.5' 66°00.4' | Cp and bornite in fractures in hornfels adjacent to a Devonian granitic stock. | **1964**: discovery, dd.<br>**1966–67**: dd.<br>**1967**: u/g dev started via adits and spiral declines.<br>**1969–76, 1979–82**: prod 88,746 tons Cu and 1,621,000 oz Ag from 8,133,848 milled. | 1,062,729 at 0.99% Cu ***1/07/1982*** (Madeleine ML, 1982 AR) | This known remaining tonnage was uneconomic when the mine shut down on 10/06/82. |
| QUE. 64 | KACHIWISS LAKE<br>Getty Mnrls CL<br>22 J/8<br>50°21.1' 66°15.4' | Uraninite, uranothorite, monazite, uranophane and allanite in clusters, disseminations, with magnetite and biotite and along fracture planes; in low–dipping pegmatite dykes, associated with Grenville paragneiss. | **1967**: airborne rad survey.<br>**1968**: ground rad survey, rock trenching, sampling by Satellite Mtl ML. | 16 598 100 mt at 0.016% $U_3O_8$ ***1978*** (Que GM–34330, 1978) | Located west of Moisie River, 12 mi north of Sept–Iles. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 65 | DE LA BLACHE–HERVIEUX–SHMOO LAKES<br>150990 Can L<br>22 K/4<br>50°02.4′ 69°40.2′ | Magnetite and ilmenite in anorthosite. | **1953–54**: geol and mag surveys.<br>**1964**: dd.<br>**1981**: evaluation.<br>**1982**: mag and geol surveys. | Pot: 79,000,000 at 48% Fe, 20.5% $TiO_2$ ***1964*** (CMH 1965, p 42) | Sampling for vanadium showed an average of 0.36% $V_2O_5$. The presence of exsolved ulvospinel within magnetite crystals poses a serious separation/recovery problem. |
| QUE. 66 | PAMBRUN LAKE<br>Caneonti ML<br>(in 1957)<br>22 M/10<br>51°41.2′ 70°49.3′ | A body, at least 1,000′ square, of massive magnetite–ilmenite, with some interspersed waste, hosted by foliated anorthosite. | **1953**: discovery, preliminary tests.<br>**1954–57**: dip needle surveys, sampling. | Poss: 50,000,000 lt at 19% $TiO_2$, 47% Fe to 500′ ***1954*** (L&P Moyd, unpubl rept 01/09/54) | Grade is based on analysis of a 60 lb composite of a number of surface samples. |
| QUE. 67 | LAC CROCHE<br>Soc d'Expl Min<br>Mazarin Inc<br>23 B/7<br>52°28.2′ 66°51.4′ | A band of qtz–mica–Kyn schist is prob derived from an aluminous shale. The deposit, traced 600 m on strike and 300 m wide, contains 1–2 cm long crystals of blue Kyn. | **1961**: Kyn–bearing schist mapped by govt.<br>**1986**: deposit discovered.<br>**1987**: chip sampling VLF–EM survey. | 4 500 000 mt at unstated grade to 30 m ***1988*** (unpubl co rept, J Bonneau, 1988) | Forty–four chip samples averaged about 20% Kyn. |
| QUE. 68 | KNIFE LAKE<br>Soc d'Expl Min<br>Mazarin Inc<br>23 B/11<br>52°33.5′ 67°11.0′ | Graphite, in disseminations and nearly pure lenses occurs in metasedimentary schists and gneisses of the Menihek formation. | **1960**: disc by provincial geol mapping party.<br>**1987–88**: tr, sampling, VLF–EM survey, concentration tests.<br>**1989**: extensive dd. | 3 700 000 mt proven at 17.4% C, 1 200 000 mt prob at 16.9% C, and 3 600 000 poss at 16% C ***1989*** (NM 12/06/89) | Prelim tests gave a total recovery of 96.0% with a final concentrate grade of 94.4% C. |
| QUE. 69 | MAGPIE MTN (MINGAN)<br>Soquem<br>22 P/8<br>51°23.7′ 64°03.8′ | Titaniferous magnetite, massive and interbanded with gabbroic anorthosite and anorthosite intrusive into Grenville–type gneisses. | **1953**: discovery.<br>**1954–55**: geol and mag surveys, concentration tests.<br>**1959–60**: sampling, smelting tests.<br>**1969–76**: bulk sampling, metallurgical testing, feasibility studies. | Ind and prob: 1,106,800,000 lt at 42.9% Fe, 10.5% $TiO_2$, 1.6% Cr, 6.8% $SiO_2$, 0.17% $V_2O_5$ in 4 deposits ***1969*** (CIM Bull, Vol. **64**, p 62, Dec 1971) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 70 | INDICATOR<br>Soquem & Uranerz Expln and Mng L<br>23 D/4<br>52°02′ 71°42′ | A horizontal bed of magnesite in Aphebian dolomite with dimensions of 300 m x 260 m x 22 m deep. | **1984**: disc.<br>**1985**: dd. | 4,800,000 at 42.26% MgO, 1.40% CaO, 5.21% $SiO_2$, 0.18% $FeO_3$, 0.02% $Al_2O_3$ ***1985***<br>(Soquem 1985–86 AR) | This tonnage was outlined by 5 vertical holes. Exploration planned for 1990 is expected to increase the estimated resources. |
| QUE. 71 | JIMMICK LAKE<br>La Fosse Platinum Group Inc<br>23 J/16<br>54°59.2′ 66°12.5′ | Cp, sph and gal with py and po in schists. | **c 1960**: geoph surveys and dd. | Dd–ind: 120,000 at 5.20% Zn, 0.26% Cu, 0.61% Pb ***c 1960***<br>(Labrador Mng & Expl CL 12/10/77, written commun to A G Sozanski) |  |
| QUE. 72 | DIETER LAKE<br>Uranerz Expln and Mng L (c 1985)<br>23 M/15<br>55°56′ 70°35′ | Uranium mineralization in the basal units of the Sakami Fm (shale and siltstone) in an Aphebian outlier resting on Archean basement. | **1976–78**: geochem and radiometric surveys.<br>**1979–80**: dd. | Poss: 50 000 000 mt at 0.10% $U_3O_8$, ***or*** 10–15 000 000 mt at 0.25% $U_3O_8$ ***1980***<br>(Finance 10/11/80) | Suggested by drilling to a maximum depth of 1,000′. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 73 | BLUE LAKE<br>La Fosse Platinum Group Inc<br>23 O/1<br>55°13.7′ 66°07.5′ | Disseminated to massive po and cp in a gabbro–peridotite complex. | **1956–57**: dd.<br>**1986**: core sampling, geoph.<br>**1987**: decline driven on Blue #1, dd.<br>**1988**: dd. | ***(i) Blue #1***: 434,120 at 0.99% Cu, 0.66% Ni, 1.13 ppm PGE<br>***(ii) Blue #2***: 1,140,250 at 0.8[illegible] Cu, 0.41% Ni, 0.80 ppm PGE<br>***(iii) Blue #3***: 113,400 at 0.82% Cu, 0.41% Ni, 1.21 ppm PGE<br>***(iv) Blue #4***: 114,500 at 1.06 Cu, 0.41% Ni, 0.82 ppm PGE<br>***(v) Blue #5***: 87,000 at 0.78% Cu, 0.56% Ni, 0.79 ppm PGE<br>***(vi) Blue #6***: 34,000 at 1.85% Cu, 0.50% Ni, 0.53 ppm PGE<br>***1989***<br>(La Fosse Platinum Gp Inc, unpubl rept, 1989) |  |
| QUE. 74 | FREDERICKSON LAKE<br>La Fosse Platinum Group Inc<br>23 O/1<br>55°03.2′ 66°15.9′ | Three separate sulphide deposits, essentially concordant, one in sediments and two in a gabbro sill. | **1942 (?)**: discovery.<br>**1943**: surface work.<br>**1944**: dd.<br>**1949**: detailed ground surveys. | 308,000 at 4.38% Zn, 0.77% Cu, 0.02 oz/t Au, 1.23 oz/t Ag ***1944***<br>(Labrador Mng & Expl CL 12/10/77, written commun to A G Sozanski) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 75 | RETTY LAKE – CENTRE<br>La Fosse Platinum Group Inc<br>23 O/1<br>55°13.6′ 66°08.7′ | Disseminated to massive po–cp in peridotite. | **1966**: EM survey.<br>**1967–68**: dd.<br>**1986**: resampling of cores.<br>**1987–88**: dd. | ***(i) Centre #1***: 267 736 mt at 1.01% Cu, 0.60% Ni, 0.24 ppm Pt, 0.71 ppm Pd<br>***(ii) Centre #2***: 833 300 mt at 0.75% Cu, 0.63% Ni, 0.15 ppm Pt, 0.63 ppm Pd<br>***1988***<br>(T Clark, Que Seminaire Exploration 1/12/88) | **An unpublished co rept gives corresponding recalculated 1989 figures as follows:**<br>***(i)*** **308,340 at 1.05% Cu, 0.62% Ni, 1.09 ppm PGE;**<br>***(ii)*** **1,222,750 at 0.70% Cu, 0.58% Ni, 0.85 ppm PGE.** |
| QUE. 76 | RETTY LAKE – POGO<br>La Fosse Platinum Group Inc<br>23 O/1<br>55°13.9′ 66°09.8′ | Dissem to massive po–cp in peridotite. | **1966**: EM survey.<br>**1967–68**: dd.<br>**1986**: resampling of dd core.<br>**1987–88**: dd. | 1 109 950 mt at 0.85% Cu, 0.50% Ni, 0.10 ppm Pt, 0.63 ppm Pd ***1988***<br>(T Clark, Que Seminaire Exploration 1/12/88)<br>***or*** 1,368,160 at 0.96% Cu, 0.49% Ni, 0.71 ppm PGE ***1989***<br>(La Fosse Platinum Gp Inc, unpubl rept, 1989) |  |
| QUE. 77 | CHANCE LAKE<br>La Fosse Platinum Group Inc<br>23 O/10<br>55°41.3′ 66°45.7′ | Disseminated to massive po and cp in a sulphide zone 30′ thick overlying the basal tremolite zone of a sepentinized peridotite sill. | **Pre–1959**: geol and geoph surveys.<br>**1959**: dd.<br>**1988**: dd. | Dd–ind: 716,000 at 0.89% Ni, 0.66% Cu ***1959***<br>(Hollinger Cons GML, 1959 AR) | **Sampling of the deposit in 1986 gave above background PGE values.** |
| QUE. 78 | FRANELLE<br>Tournigan Mng Expls L<br>23 O/11<br>55°33.5′ 67°21.0′ | A gabbro dyke, consisting of several phases of intrusion, cuts sandstone. It contains cp, bornite, chrysocolla as disseminations and fracture and cavity fillings throughout 8,600′ length and 200′–230′ width. | **1976**: discovery.<br>**1977**: mag and EM surveys, rock trenching, dd.<br>**1987**: dd for PGE, Au. | Poss: 110,000,000 at 0.23% Cu ***1977***<br>(Que GM–33646, 1977) | **Based on 6 ddh put down on two sections and on lateral projec-tions. This deposit is located in the Labrador Trough, 60 mi N of Schefferville.** |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 79 | MARYMAC<br>La Fosse Platinum Group Inc<br>24 C/15; 16 F/2<br>56°56.8′ 68°32.0′ | Several deposits of dissem to massive sulphs occur at intervals over 13 km strike length in gabbro and adjoining Proterozoic seds and volcs. | **1954–55**: mag and EM surveys, dd.<br>**1972–81**: geoph surveys, dd.<br>**1986**: dd core sampling.<br>**1988**: dd. | ***(i) Marymac II***: 930,000 at 1.60% Cu, 0.43% Ni<br>***(ii) Float***: 133,000 at 2.10% Cu, 0.34% Ni<br>***(iii) Redcliff***: 1,068,000 at 2.09% Cu, 0.51% Ni<br>(La Fosse Platinum Gp Inc, 1987 AR)<br>***(iv) Lepage & Island***: 1,200,000 at 2.02% Cu, 0.45% Ni<br>***1976***<br>(Que DPV–737, p 91, 1980) | Two other deposits for which tonnages and grades are not available are Marymac I and Nine South. Minor recent dd on Redcliff, Marymac I and Island reportedly increased the resources in these deposits. The Redcliff deposit contains about 0.4 g/t Au, 0.4 g/t Pt and 2.1 g/t Pd. |
| QUE. 80 | KOKE<br>Cominco L<br>24 F/11<br>57°39.7′ 69°27.0′ | Massive py with sph, cp and gal in a stratum of qtzite, adjacent to graphitic phyllites and schists. | **1961–62**: discovery, trenching, sampling, mag, EM, 11,000′ dd.<br>**1974–75**: Apex EM, HEM, mag, gravity, geochem surveys.<br>**1977**: one ddh. | 1,169,165 at 0.70% Cu, 6.86% Zn, 1.03% Pb, 0.03 oz/t Au, 1.59 oz/t Ag ***1962***<br>(Que TT, 1978) |  |
| QUE. 81 | CHRYSLER NO. 2<br>La Fosse Platinum Group Inc<br>24 F/13<br>57°56′ 69°39′ | Po–py–cp–sph in a discontinuous mineralized zone over an area 2,100′ by 80′, in blotchy gabbro. | **1953–63**: geol and geoph surveys, dd.<br>**1987**: dd. | ***(i) Chrysler North***: 1,206,546 at 2.08% Cu, 0.72% Ni, 0.10% Co, 1.75 g/mt PGE<br>***(ii) Chrysler South***: 689,920 at 1.79% Cu, 0.55% Ni, 0.10% Co,1.30 g/mt PGE<br>***1989***<br>(La Fosse Platinum Gp Inc, unpubl rept, 1989) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 82 | ERICKSON NO. 1<br>La Fosse Platinum Group Inc<br>24 F/13; K/4<br>58°00.6′ 69°45.2′ | Po, pn, py, cp in two deposits (4,000′ x 75′ and 2,000′ x 35′) a mi apart near the base of a blotchy gabbro sill. | **1953–55**: mag and EM surveys, trenching, dd.<br>**1986**: dd core sampling. | Dd–ind: 573,000 at 1.12% Cu, 0.32% Ni ***1955***<br>(Labrador Mng & Expl CL 12/10/77, written commun to A G Sozanski) |  |
| QUE. 83 | ERICKSON NO. 2<br>La Fosse Platinum Group Inc<br>24 F/13<br>57°56′ 69°37.5′ | Po, pn, cp in a sill of blotchy metagabbro. | **1955**: trenching, 1 ddh. | 75,000 at 1.00% Cu, 0.25% Ni ***1955***<br>(La Fosse Platinum Gp Inc, Prospectus 28/07/87) |  |
| QUE. 84 | GOOSE POND<br>La Fosse Platinum Gp Inc<br>24 F/13<br>57°59.5′ 69°43.7′ | Po, pn, cp in pyroxenite below a blotchy gabbro sill. | **1954–55**: mag, EM, tr.<br>**1986**: tr, sampling.<br>**1987**: geoph, dd. | 62,249 at 1.44% Cu, 0.23% Ni, 1.09 g/t PGE ***1989***<br>(La Fosse Platinum Gp Inc, unpubl rept, 1989) |  |
| QUE. 85 | LESLIE NO. 2<br>La Fosse Platinum Group Inc<br>24 K/4<br>58°01′ 69°47′ | Po, pn, cp and py in the lower part of a blotchy gabbro sill. Deposit is 7,000′ x 100′. | **1953–55**: geol, mag and EM surveys, trenching, bulk sampling, dd.<br>**1969**: dd.<br>**1986**: dd core sampling. | Dd–ind: 765,000 at 1.56% Cu, 0.33% Ni ***1955***<br>(Labrador Mng & Expl CL 12/10/77, written commun to A G Sozanski)<br>***or*** 1,767,655 at 1.16% Cu, 0.36% Ni ***1989***<br>(La Fosse Platinum Gp Inc, unpubl rept, 1989) |  |
| QUE. 86 | PARTINGTON NO. 1 (CROTCHET L)<br>Riverton Res Corp<br>24 K/4<br>58°06′ 69°55′ | Po, minor py, in black shale. | **1954–55**: channel sampling and dd. | 30,000,000 at 25.88% S ***1955***<br>(Que SP–5, p 18, 1970) | Grade is the average from 5 ddh. Arithmetic average of 136 channel sample assays is 21.47% S. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 87 | PRUD’HOMME NO. 1<br>La Fosse Platinum Group Inc<br>24 K/5<br>58°15.6′ 69°54.5′ | Py with po, cp, sph in silicified sedimentary rock. | **1955–56**: mag and EM surveys, dd.<br>**1962–66**: surface work, dd. | ***(i) North zone***: 1,270,605 at 2.01% Cu, 2.31% Zn, 0.42% Pb, 0.09% Co, 0.94 oz/t Ag, 0.05 oz/t Au<br>***(ii) Main (south) zone***: 5,046,000 at 1.40% Cu, 1.66% Zn, 0.10% Pb, 0.08% Co, 0.56 oz/t Ag, 0.04 oz/t Au<br>***1989***<br>(La Fosse Platinum Gp Inc, unpubl rept, 1989) | Sampling of the main deposit in 1986 gave disappointing Pt–Pd values. |
| QUE. 88 | SOUCY NO. 1<br>La Fosse Platinum Gp Inc<br>24 K/5<br>58°19.2′ 69°52.2′ | Py, po, cp, sph and pn replace sediments at a contact with a gabbro sill. | **1954–55**: dd.<br>**1972–76**: dd. | ***(i) A zone***: 6,000,000 ind at 1.34% Cu, 1.87% Zn, 0.047 oz/t Au, 0.54 oz/t Ag ***1975***<br>(CMH 1979–80, p 190)<br>***or*** 4,767,400 at 1.40% Cu, 1.09% Zn, 0.10% Pb, 0.09% Co, 0.56 oz/t Ag, 0.06 oz/t Au ***1989***<br>(La Fosse Platinum Gp Inc, unpubl rept, 1989)<br>***(ii) C zone***: 143,000 poss at 0.72% Cu, 0.22% Ni ***1955***<br>(Que GR 104, p 95, 1965) |  |
| QUE. 89 | PIO LAKE<br>Glendora Holdings L<br>24 K/13<br>58°57.8′ 69°36.5′ | Two veins 50′ apart near contact between pillow lavas and an ultramafic sill. East vein is 175′ long, West vein is 125′ long; both are 7′ wide and contain cp and pn. | **1969**: discovery.<br>**1970–74**: geoph surveys, dd.<br>**1973**: 500′ adit driven, ore stockpiled.<br>**1974**: 20 tpd pilot plant erected and operated.<br>**1987**: sampling for precious metals. | ***(i) East vein***: 26,500 at 6.40% Cu, 3.00% Ni<br>***(ii) West vein***: 17,000 at 5.85% Cu, 0.25% Ni<br>***1974***<br>(Que TT, 1978) | Tests in 1979 showed feasibility of direct recovery from ore by electrodeposition. 1987 sampling by Riverton Res Corp returned up to 12 g/t Au and 5.8 g/t Pd. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 90 | HOPES ADVANCE BAY NOS. 1 AND 1N<br>Hawk Ridge Mineral Enterprises<br>24 N/4<br>59°10' 69°38' | Massive to dis po and cp in blotchy gabbro and ultra-basic rocks. | **1960**: initial discoveries, surface work.<br>**1970–72, 1975**: geoph, geochem, dd. | ***(i) Group 1***: poss: 20,000,000 at 0.59% Cu, 0.16% Ni to 800'<br>***(ii) Group 1N***: poss: 42,000 at 2.17% Cu, 0.33% Ni<br>***1975***<br>(Esso Mnrls, prel rept, 1979) |  |
| QUE. 91 | HOPES ADVANCE BAY NO. 3<br>Riverton Res Corp<br>24 N/4<br>59°03.6' 69°42.7' | Massive to dis po–cp–pn in a blotchy gabbro sill. | **1960–62**: surf work, dd.<br>**1977–78**: tr, dd.<br>**1987**: sampling, geoph. | 6,000,000 at 0.76% Cu, 0.26% Ni<br>***c 1962***<br>(Que GM–35605, 1979) |  |
| QUE. 92 | BAIN (INDIAN)<br>Cominco L (in 1985)<br>31 F/9<br>45°44.3' 76°08.2' | Molybdenite in flakes and aggregates in bodies of pyroxene and pyrite within hornblende gneisses. | **1917–18**: pits sunk, test shipments.<br>**1921**: concentration tests.<br>**1925**: surface work.<br>**1927, 1933**: surveys incl mag.<br>**1937**: pilot mill erected and operated.<br>**1939**: dd.<br>**1943–44**: about 1,500 milled.<br>**1965**: dd. | 14,500 at 0.26% $MoS_2$<br>***1943***<br>(GSC EG 20, p 201, 1963)<br>***or*** poss: 2,000 at 0.5%–1.0% $MoS_2$ and 18,000 at 0.2% $MoS_2$ ***1943***<br>(Que MIQ 1943, p 39) | V L Eardley–Wilmot (1943) did not think these estimates (by W N Ingham) were justified. |
| QUE. 93 | DUN RAVEN<br>Dun Raven ML (in 1956)<br>31 F/9<br>45°42.1' 76°23.5' | Disseminated graphite flakes in flat–lying zones: 'A' 61' thick and 'D' 77' thick, in biotite–feldspar paragneiss interbedded with crystalline limestone. | **1954–55**: discovery, trenching, mag–SP survey, dd, concentration tests. | ***(i) A zone***: 630,000 dd–ind at 4.72% C<br>***(ii) D zone***: 3,350,000 dd–ind at 4.0% C<br>***1955***<br>(Que PR 390, p 17, 1959) | Concentration tests reportedly produced good quality flake graphite.<br>Que DV 85–08 (1985) lists P Gunter as holder of A zone, and GC Roy of D zone. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 94 | KERT<br>Panacea Mng & Expl L<br>(in 1970)<br>31 F/9<br>45•43.6′ 76•09.0′ | Moly with cp in lenses of pyroxenite within Grenville limestone and gneisses. Pegmatite dykes in the vicinity carry small U values. | **Pre–1884**: discovery.<br>**1916–17**: small shipments.<br>**1939**: concentration tests.<br>**1954**: pilot plant operated.<br>**1955**: explored for U, dd.<br>**1965**: dd.<br>**1968**: airborne scint survey. | 2,200 at 0.21% $MoS_2$ ***1942***<br>(Que unpubl rept M–506, 1942) | |
| QUE. 95 | KIRKHAM<br>Bidlamaque GML<br>(option in 1965)<br>31 F/9<br>45•40.0′ 76•24.3′ | Moly occurs with po, py, cp and minor U minerals in lenses of diopside–rich pyroxenite within Grenville sedimentary gneisses and limestones and along contacts with pegmatites. | **1951**: discovery.<br>**1952–57**: rad survey, dd, rock trenching, 2 adits, bulk sampling, milling tests.<br>**1965**: IP survey. | Meas & ind: 280,000 at 0.502% $MoS_2$ ***1957***<br>(GSC EG 20, p 175, 1963) | Grade is that of mill-heads from a 90–ton sample. Drift muck samples averaged 0.547% and channel samples 0.484% $MoS_2$. Milling showed a recovery of 83.9%. |
| QUE. 96 | MOSS MINE<br>Operators L<br>(in 1944)<br>31 F/9<br>45•34′25″ 76•14′36″ | Moly, disseminated and in aggregates, with py, po, fluorite and magnetite. Probable origin is by magmatic segregation from the host qtz syenite. | **1915**: rock trenching.<br>**1916–19**: mng and milling 60,000 t from No. 1 Pit.<br>**1924–26**: mng and milling of 8,000 t.<br>**1940–44**: mng and milling of 138,000 t. | Prob & poss: 38,000–56,000 at 0.4% $MoS_2$ ***1942***<br>(C W Greenland 11/42, rept to Quyon Molybdenite CL) | |
| QUE. 97 | NEW CALUMET MINE<br>Corona Corp<br>31 F/10<br>45•42.2′ 76•40.4′ | Ore shoots and masses occur in (Grenville) biotite paragneiss near its contact with an overlying amphibolite. Sph, py, marcasite, po, gal, with some cp and asp, replace a pre–ore gangue of Ca and Mg silicates. | **1891–1918**: dev and prod from small u/g workings; small shipments 1891–98, 1917–18.<br>**1937–42**: extensive dd; sinking of the main shaft; erection of an 800 t/d mill.<br>**1943–68**: prod of 3,743,785 tons at 6% Zn and 1.7% Pb.<br>**1986–87**: mag, VLF EM, soil geochem, tr, dd. | 282,255 at 4.51% Zn, 1.08% Pb, 2.34 oz/t Ag, 0.014 oz/t Au ***1968***<br>(New Calumet ML, 1969 AR) | A quarter of the tonnage is in pillars, the rest in low grade (3% Zn) pockets elsewhere in the mine.<br>A gold–bearing zone was cut by drilling below the old mine sulphide zones. One 1986 surface hole cut 0.169 oz/t Au over 60′. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 98 | PORTAGE–DU–FORT<br>Expln Aster Inc<br>31 F/10<br>45°35.0′ 76°39.5′ | Grenville magnesium–rich dolomite. | **1979 and prior**: sampling. | 10 million mt at 21.0% CaO, 31.0% MgO ***1979***<br>(Que TT, 1983) | |
| QUE. 99 | CALUMET URANIUM MINES<br>Albarmont (1985) Inc<br>31 F/15<br>45°47′10″ 76°43′15″ | Uranothorite and monazite in fluorite–pyroxene and calcite–rich skarns. | **1953–54**: rad surveys, stripping, sampling.<br>**1954–56**: dd. | 440,000 at 0.08% $U_3O_8$, 0.29% $ThO_2$ across 4′ ***1956***<br>(NM 06/12/56) | |
| QUE. 100 | YATES<br>Futuranium ML<br>31 F/15<br>45°57.6′ 76°32.9′ | Matte zone is a calcite–pyroxene–fluorite–apatite vein–dyke, 800′ by 20′, that cuts granite pegmatite. Camp zone, 0.7 mi SW of Matte, is a calc–silicate zone composed of calcite, scapolite, diopside and phlogopite. Radioactivity occurs over 900′ by 100′.<br>Radioactive minerals in these zones incl thorianite, uranothorite, allanite and uranophane. | **1953–56**: rad surveys, rock trenching, dd, 170′ adit on Matte zone.<br>**1976**: dd on Matte zone. | ***(i) Matte zone***: 201,923 ind at 0.078% $U_3O_8$, 0.695% $ThO_2$, 15% fluorite, 5% apatite ***plus*** 3,153,486 inf at same grade ***1956***<br>***(ii) Camp zone***: 183,865 ind at 0.056% $U_3O_8$, 0.15% $ThO_2$ ***plus*** 468,542 inf at same grade ***1955***<br>(NM 22/03/56) | An area west of the Camp zone was originally worked for mica, most actively in 1914–18 and 1945. The same locality is the only one in Quebec from which fluorite has been produced (a small amount was shipped in 1943). |
| QUE. 101 | COULEE–HEADWAY<br>Quebec Columbium L<br>31 G/8, 9<br>45°30.0′ 74°02.9′ | Pyrochlore–bearing sovites interbanded with ijolites and okaite comprise the SE third of the Bond zone that occurs on the property, in west–central part of the Oka alkaline complex.<br>Deposit contains values in Cb, Ta, Ti, U, rare earths and phosphate. | **1954**: airborne mag and rad surveys.<br>**1955–56**: dd.<br>**1960–61**: ore dressing research, dd.<br>**1980**: gravity survey.<br>**1987–88**: sampling, dd. | Ind: 38,243,491 at 0.40% $Cb_2O_5$ or 106,503,345 at 0.26% $Cb_2O_5$ ***1956***<br>(NM 21/04/66) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 102 | 'D' BLOCK<br>St. Lawrence Columbium and Mtls Corp<br>31 G/8<br>45°29.7' 74°00.7' | Pyrochlore–bearing bands of sovite interbanded with ijolites and urtites; in the SE sector of the Oka alkaline complex. | **1954–57**: airborne mag and rad surveys, ground rad surveys, dd. | Ind & inf: 17,400,000 at 0.3–0.4% $Cb_2O_3$ ***1958***<br>(C Carbonneau 12/04/58, rept for St Lawrence River ML) | Of this, 13 million tons is in the indicated category. |
| QUE. 103 | OKA COLUMBIUM<br>St. Lawrence Columbium and Mtls Corp<br>31 G/8<br>45°29.2' 74°00.4' | Pyrochlore–bearing sovites are interbanded with ijolites; at the SE margin of the Oka alkaline complex. | **1954–57**: airborne mag and rad surveys, dd. | 22,500,000 at 0.4–0.5% $Cb_2O_5$, 0.20–0.50% rare earths, 0.06% $ThO_2$ ***1957***<br>(IGC 8–11, p 43, 1972; Que PR 390, p 82, 1959) | Deposit is located mostly under the waters of Lac des Deux Montagnes. |
| QUE. 104 | BOUSCADILLAC 'A'<br>Cadamet ML (in 1960)<br>31 G/9<br>45°31.7' 74°04.9' | Presumably pyrochlore in carbonatite; near the NW margin of Oka alkaline complex. | **1954–55**: mag and rad surveys, dd. | 3,800,000 at 0.31% $Cb_2O_5$, 0.50% rare earths, 10% apatite ***1955***<br>(CMJ, Dec 1955) |  |
| QUE. 105 | MANOKA<br>Fundy Chemical Int'l L (in 1973)<br>31 G/9<br>45°33.1' 74°01.6' | Values in Cb, Ta, Th, U and rare earths in a carbonatite boss, a satellite of the Oka alkaline complex. | **1954–55**: airborne, ground mag and rad surveys, dd.<br>**1956**: shaft to 450', work on two levels. | 200,000 at 0.60% $Cb_2O_5$, 0.25% ThO, 1% rare earths to 400' ***1955***<br>(Que PR 354, p 10, 1957) |  |
| QUE. 106 | QUEBEC COLUMBIUM<br>Que Columbium L<br>31 G/9<br>45°30.2' 74°03.2' | The two deposits are 6,000' apart and contain Cb, Ta, U, Th, rare earths and phosphates, occurring in sovite, interbanded with ijolite and okaite; within the northern ring of the Oka alkaline complex. Bond zone, of which two–thirds is on the property, is the largest known Cb–bearing zone in Oka area. | **1952**: discovery, first in Oka area.<br>**1953–55**: mag and rad surveys, stripping, trenching, dd.<br>**1956–60**: ore dressing research.<br>**1959–61**: dd.<br>**1980**: 2 ddh. | ***(i) Bond zone***:<br>30,000,000 at 0.6% $Cb_2O_5$ to 500'<br>***(ii) Manny zone***:<br>25,000,000 at 0.35% $Cb_2O_5$ ***1955***<br>(Que PR 351, p 9, 1957) | Drilling in 1959–61 has reportedly increased substantially the tonnage in Bond zone. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 107 | ST. LAWRENCE COLUMBIUM (incl MAIN OKA)<br>St. Lawrence Columbium and Mtls Corp<br>31 G/9<br>45°30.1′ 74°01.8′ | Pyrochlore, perovskite and niocalite in sovites interbanded with ijolites and nepheline syenites; in the east–central sector of the Oka carbonatite–alkaline complex. | **1954–57**: aeromag and ground mag surveys, dd.<br>**1957–59**: ore treatment research.<br>**1960–61**: mill erected.<br>**1961–76**: milled 6,840,000 tons (incl Main Oka 1974–76) | Ind and proven: 25,566,000 at 0.44% $Cb_2O_5$, ***incl*** 18,400,000 in Main Oka ***May 1974***<br>(NM 16/05/74) | Subsequent to the estimation, some 1,500,000 was mined, until closure in February 1976 by a strike, followed by offer of sale of assets by a Trustee. Property, plant, mill and other assets remained unsold in 1979.<br>Development and mining (1974–76) had extended into the adjoining property of Main Oka Mng Corp, under long–term lease by St. Lawrence. |
| QUE. 108 | BELL GRAPHITE MINE<br>Westfield Mnrls L<br>(in 1958)<br>31 G/11<br>45°35.9′ 75°21.8′ | Disseminated flakes and flaky aggregates of graphite in crystalline limestone over 1,000′ by 15′. | **1906–12**: mining from several adits; mill erected and operated.<br>**1951–52**: dd, ore testing. | 185,000 at 9.4% C in a block 800′ x 13.3′ x 250′ ***1952***<br>(Que MIQ 1952, p 49) | Lab tests showed suitability of recovering high–carbon, fine–sized lubricating grades of flake, but not suitability for crucible production. |
| QUE. 109 | EASTERN ASBESTOS<br>Eastern Asb CL<br>(in 1976)<br>31 G/13<br>45°45.4′ 75°38.8′ | Cross–fibre in serpentinite derived from the alteration of crystalline limestone. Two fibre zones: 1,000′ x 250′ to 560′; 500′ x 200′. | **1892, 1900**: small scale workings.<br>**1953–56**: rock trenching, dd, 2,700′ lateral advances in adit, bulk sampling and testing. | 1,500,000 at $18.50/t Asb ***1955 or*** 10,000,000 at unstated Asb grade, mainly 4–7 groups, some 3K ***1956***<br>(Que ES–14, p 28, 1973) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 110 | HIGH ROCK MINE<br>Les Placements Mavtech Inc<br>31 G/13<br>45•47.3' 75•37.8' | Apatite, disseminated and as massive pockets, in pyroxenite, probably derived by metasomatism of Grenville limestone. | **1879**: surface work.<br>**1882–92**: 300,000 mined from open–pits and adit workings.<br>**1905, 1910**: small shipments.<br>**1932, 1936, 1939–45**: small shipments.<br>**1949–50**: adit workings extended, dd, milling tests, small shipments. | 113,000 at 34.3% bone phosphate of lime ***or*** 285,000 at 22.3% BPL, plus 125,000 at unstated grade on dumps ***1950*** (Quebec Smg & Refining L, 1950 AR) | Company stated in 1950 that suitable concentration could be done for $1.17/t at 100 t/d. Note: 1% BPL = 0.458% $P_2O_5$. |
| QUE. 111 | ST–REMI<br>Soc Min Gerdin Ltée<br>31 G/15<br>45•59' 74•45' | Quartzite, locally very friable, consisting of qtz crystals, 1 cm or more across, in a matrix of kaolinite. The deposit is probably derived from a Grenville feldspathic quartzite, altered by emanations from granite surrounding the deposit. | **1894**: discovery.<br>**1912–18, 1921–23**: quarrying first for kaolin and later for silica and kaolin.<br>**1937–39**: shaft sunk, u/g dev.<br>**1941**: 200 t/d mill completed, prod from u/g.<br>**1942–48**: prod of qtz and kaolin from quarry.<br>**1954, 1956–58**: silica shipped from quarry.<br>**1975–79**: dd, bulk sample testing.<br>**1980**: 10 ddh. | Silica and kaolin: N/A |  |
| QUE. 112 | CANADIAN GRAPHITE<br>Jonpol Expls L<br>(in 1982)<br>31 G/16<br>45•46.3' 74•19.5' | Disseminated flake graphite in crystalline limestone. | **1863**: surface work.<br>**1911–15**: rock trenching, 100' adit.<br>**1918**: dd, rock trenching and sampling. | 180,000 at 6.15% ***c 1918*** (C H Hitchcock 4/11/18, rept for Can Graphite CL) | Graphite was reported to occur in flakes of good size and quality. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 113 | PIN–ROUGE LAKE<br>Laurentian Titanium ML (in 1988)<br>31 G/16<br>45°57.7' 74°02.7' | Ilmenite–hematite and titaniferous magnetite zones within a 1,000' wide band of foliated gabbroic anorthosite of the Morin anorthosite complex. | **1896**: discovery.<br>**1952**: aeromag and dip needle surveys.<br>**1954–55**: ground mag, rock trenching, dd.<br>**1958**: dd, sampling.<br>**1959–62**: beneficiation tests.<br>**1976–80**: geoph surveys, beneficiation tests, minor dd. | ***(i) Hemo–ilmenite*** inf: 34.8 million at 17% $TiO_2$, 22% Fe, to 300' ***1980***<br>***(ii) Titaniferous magnetite*** inf: 124 million at 24% Fe, 7% $TiO_2$ to 200' ***pre–1972***<br>(C Salamis, oral commun to A G Sozanski, 1981) | Can beneficiate hemo-ilmenite to 38% $TiO_2$ and 45% Fe with less than 3% impurities at –48 mesh.<br>Pellets grading 68.3% Fe, 1.25% $SiO_2$, 0.7% $TiO_2$, 0.03% P can be made from the titaniferous magnetite material. |
| QUE. 114 | TAMARA–DRUMMOND<br>Laurentian Titanium ML (in 1988)<br>31 G/16<br>45°59.7' 74°02.8' | Two separate zones of titaniferous magnetite with minor hematite in a gabbroic anorthosite of the Morin intrusive complex. Adjoins Pin–Rouge Lake ground on the north. | **1958–60**: ground mag surveys, dd, bulk sampling, beneficiation tests. | 360,000,000 at 7.6% $TiO_2$, 22% Fe to 500' at 20% dil ***1960***<br>(NM 06/10/60) | Tests gave a concentrate of 68.8% Fe, 0.5% Ti and 1.62% $SiO_2$ by grinding to –150 mesh and separating ilmenite out magnetically. |
| QUE. 115 | LITTLE MAGOG LAKE<br>Messrs Ethier & Langlois (in 1956)<br>31 H/1<br>45°14.8' 72°04.5' | N/A | **1956**: unstated evaluation work. | 2,100,000 "asbestos ore" ***1956***<br>(Que ES–14, p 70, 1973) | Reported in "La Tribune", Sherbrooke, 19/08/56. |
| QUE. 116 | BROMPTON<br>Les Mines Lac Ore Inc<br>31 H/8<br>45°28.8' 72°06.5' | Po, cp in ultramafic pyroclastics. Volcanogenic. | **1960–65**: geochem, mag, EM, IP, dd.<br>**1974–76**: geoph, dd. | 500,000 at 1.6% Cu ***1976***<br>(Que DPV–578, p 16, 1978)<br>***or*** 700,000 at 1.70% Cu<br>(Que GM–18216) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 117 | FLETCHER (WEBSTER LAKE)<br>Exploration Orex Inc<br>31 H/8<br>45°24.6′ 72°06.6′ | Pods and lenses of massive to disseminated chromite in dunite. | **1940**: discovery.<br>**1940–42**: No 4 prod 1,300 lt at 31% $Cr_2O_3$ from o/p and adit workings; No 5 and No 5E prod 300 lt. | ***(i) No 4***: 1,000 lt poss at 35 + % $Cr_2O_3$ in place ***1943*** and 600 lt at 20 ± % $Cr_2O_3$ on dump ***1941*** (J W Ambrose 05/07/43, VL Eardley–Wilmot 25/04/41, unpubl EMR repts)<br>***(ii) No 5 Ext***: 500–700 lt pot at 35% $Cr_2O_3$ ***1942*** (VL Eardley–Wilmot 15/05/42, unpubl EMR rept) | Over 3,000 lt of cobbed ore were shipped (1916–17, 1940–42) from widely scattered pods within a 5–mi intercept of the Lower Ordovician ultrabasic band between Webster (Montjoie) and Brompton Lakes. |
| QUE. 118 | HUNTINGDON<br>FinNeth Expln Inc (in 1987)<br>31 H/8<br>45°15.8′ 72°19.9′ | Disseminated to massive py, cp, po, with some sph and gal, in a number of lenticular zones in basic metavolcanics, within 150′ of the contact with serpentinized peridotite. Volcanogenic. | **1865**: discovered by a diviner.<br>**1865–83**: intermittent small prod from u/g and o/p.<br>**1890–93, 1912–20**: surf and u/g expl, minor prod.<br>**1929**: geoph survey, dd.<br>**1950–53**: dd, workings dewatered, new shaft sunk, mill erected.<br>**1954–58**: milled 1,200,000 recovering 0.9% Cu, 0.03 oz/t Ag, 0.003 oz/t Au. | 800,000 at 0.88% Cu ***1958***<br>(Que SP–4, p 390, 1969) | Low–grade remnants, mainly in 'C' and 'D' zones, including the shaft pillar.<br>Under option by Valmont Mng Expln Inc. |
| QUE. 119 | IVES MINE<br>FinNeth Expln Inc (in 1987)<br>31 H/8<br>45°17.6′ 72°19.4′ | Probably volcanogenic; disseminated po–cp zones in basic metavolcanics. | **1866–1915**: some 850 t cobbed Cu ore shipped from 2 shafts.<br>**1918–30**: intermittent work, third shaft sunk.<br>**1942**: Galt shaft workings sampled.<br>**1951–57**: geoph surveys, dd.<br>**1965**: geoph survey. | 1,500′ x 22′ at 3–4% Cu ***1957***<br>(FP Corp Serv, Que Copper Corp L, 10/03/60) | Average of intersections obtained in drilling from surface.<br>Under option by Valmont Mng Expln Inc. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 120 | DEROGAN (MELBOURNE)<br>Kingsbury Asb ML<br>(in 1971)<br>31 H/9<br>45°35.9' 72°07.0' | Short cross–fibre and minor slip–fibre chrysotile in a 8,000' by 1,400' area of serpentinized peridotite. | **1876**: small quantity produced.<br>**1952–53**: stripping, trenching, sampling.<br>**1954–55**: dd.<br>**1955–56**: adits driven 180' and 222', mill tests on bulk samples.<br>**1957**: mag survey.<br>**1963**: sampling, dd.<br>**1971**: rock trenching, sampling, dd, by Asarco. | 30,000,000 at "good %" Asb ***1954***<br>(Que ES–14, p 73, 1973)<br>***or*** 15,000,000 at $7/t Asb (mainly group 5)<br>(Golden Age ML, 1962 AR) | Kingsbury Asbestos ML dropped the ground in mid–1970s. |
| QUE. 121 | LILI (STERRETT) MINE<br>Gateford Res Inc<br>31 H/9<br>45°41.0' 72°02.4' | Asb and chromite within a sill of serpentinized peridotite. | **1916**: discovery.<br>**1917–19**: chromite mined from pits and 2 shafts.<br>**1936, 1940**: chromite zone sampled.<br>**1941–45**: 104,000 chromite ore mined and milled.<br>**1951**: dd for Asb.<br>**1955**: mag survey, dd (Asb).<br>**1970–73**: mag survey, dd, bulk sampling, mill testing, feasibility study (Asb).<br>**1977**: bulk sampling (Asb).<br>**1987**: mag, gravity and geochem surveys.<br>**1988**: dd. | ***(i)*** 31,900,000 at 4.37% Asb or $7.10/t with $4.00/t cut–off (mainly 7 D, some 6, minor 4 and 5 groups) ***1976***<br>(NM 16/12/76)<br>***(ii)*** 75–90,000 at 18% $Cr_2O_3$ from 480' to 580' ***1945***<br>(VSE SMF, Pathfinder Res L, 15/12/70) | Work in 1987–88 failed to augment the known chromite resources or disclose appreciable potential for Au, PGE and REE. |
| QUE. 122 | ST–CYR<br>St. Cyr Asb CL<br>(in 1952)<br>31 H/9<br>45°42.4' 72°01.2' | Short–fibre chrysotile in serpentinized peridotite, 6 mi SW of Johns–Manville's asbestos pit. | **Pre–1947**: rock trenching.<br>**1952**: dd. | 8,500,000 Asb ore, grade unstated (mainly gp 7) ***1952***<br>(Que ES–14, p 76, 1973) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 123 | STEELE BROOK<br>Acheron Res L (in 1986)<br>31 H/9<br>45°42' 72°08' | Four of five zones contain mostly slip–fibre chrysotile, in serpentinized peridotite. | **Pre–1962**: dd.<br>**1962**: mag survey, dd. | Ind–inf: 15,000,000 ***or*** 73,100 T/VF at 8.7% Asb ***1962*** (Que DP–286, p 24, 1975)<br>***or*** 50,000,000 at $2–3/t Asb ***1973*** (NM 10/05/75) | The fibre is reported to be medium to short in length, tension resistant and of good colour. |
| QUE. 124 | UPTON<br>Ress Robex Inc L<br>31 H/10<br>45°41' 72°40' | Sph, cp, bornite, gal, py, in Lower Paleozoic argillaceous cherty limestone, probably hydrothermally derived from ophiolitic rocks. The zone averages 30' in thickness. | **1847–66**: small shipments from open cuts.<br>**1964–67**: geochem and IP surveys, dd.<br>**1980**: dd by Shell Can Res L.<br>**1986**: dd.<br>**1987**: bulk sampling. | 959 530 mt at 46.5% $BaSO_4$, 1.94% Zn (with dilution) ***1987*** (Que DV 89–01, p 135, 1989) | The deposit averages 0.59% Pb, 0.11% Cd, 0.15% Cu, 13.5 g/t Ag (Que DV 88–01)<br>In 1989, the feasibility of o/p production of 25 700 mt/yr barite was being studied. |
| QUE. 125 | RACETTE LAKE<br>Laurentian Titanium ML (in 1986)<br>31 I/4<br>46°07.2' 73°57.8' | Titaniferous magnetite in the Morin anorthosite complex. | **1953–55**: 44 ddh. | 626,400 at 19.0% $TiO_2$ and 27.3% Fe to 128' ***1953*** (MPS MR18, p 7, 1956) |  |
| QUE. 126 | MONTAUBAN<br>Muscocho Expls L<br>31 I/6<br>46°50.1' 72°20.8' | Sph, gal, po, cp zones in a calc–silicate rock and cordierite–anthophyllite paragneiss, prob representing metamorphosed sedimentary deposits.<br>Au–Ag zones are flat to low–dipping and occur within 200' of surface with values diminishing down–dip. North Gold Zone is 15' thick and at least 2,400' long. | **1910**: discovery.<br>**1911–14**: small–scale prod from open cuts and shafts.<br>**1915–61**: intermittently milled 2,920,000 Zn–Pb–Ag–Au ore, developed extensive workings.<br>**1952**: Au zones outlined by dd.<br>**1975–present**: Au zones developed; in production since 1983. | ***Base Metal zones***:<br>761,934 at 3.46% Zn, 1.07% Pb, 1.13 oz/t Ag, 0.016 oz/t Au ***1955*** (NM 24/06/76) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 127 | DEGROSBOIS<br>Pershing Amalg ML<br>(in 1969)<br>31 J/1<br>46°05.9′ 74°22.2′ | Titaniferous mag in a breccia zone in and near the contact of gabbroic anorthosite and anorthosite of the Morin intrusive complex. The main zone is 900′ x 600′ x 95′. | **1912**: sampling, concentration tests.<br>**1935**: mapping, dip needle survey.<br>**1941**: pilot blast furnace operated.<br>**1949**: shipped 12,000 for heavy aggregate.<br>**1952–53**: mag survey, dd, concentration tests. | Dd–ind: 5,527,443 at 40.87% Fe, 10.99% $TiO_2$ ***plus*** 1,051,000 at 25.67% Fe, 6.64% $TiO_2$ ***1953***<br>(Que PR 455, p 8, 1961) |  |
| QUE. 128 | IVRY MINE<br>E Latremouille<br>(IN 1969)<br>31 J/1<br>46°04′48″ 74°22′06″ | Several massive lenses of ilmenite and hematite in an area 1,000′ x 130′ of anorthosite of the Morin intrusive complex. | **1910**: opened up.<br>**1912–18**: mined and shipped 16,000 to produce ferrotitanium.<br>**1926–27**: test shipments.<br>**1958**: mined and shipped.36,000 for heavy aggregate; dd. | 160,780 heavy aggregate (Que PR 495, p 8, 1962) | Material qualified as heavy aggregate if its specific gravity exceeded 4.3. Specimens of massive Ivry ore averaged about 42% Fe, 19% $TiO_2$. |
| QUE. 129 | TITANIUM DEVELOPMENT<br>Titanium Dev Corp<br>(in 1956)<br>31 J/1<br>46°04.6′ 74°21.9′ | N/A. Prob similar to Ivry. | **1948**: rock trenching, dip needle survey.<br>**1952**: mag survey, dd.<br>**1955–56**: bulk sampling, metallurgical testing. | 1,859,000 at 38.5% Fe, 30.84% $TiO_2$ to 300′ ***plus*** 1,000,000 at 20–30% $TiO_2$, unstated Fe ***1952*** (NM 03/07/522; Que PR 495, p 8, 1962) | Results of metallurgical tests are not available. Resource calculation neglected interspersed waste material which would result in high dilution. |
| QUE. 130 | CARMIN LAKE<br>Soquem<br>31 J/2<br>46°04′ 74°59′ | Graphite in sub–horizontal beds in Grenville limestone within a granitic gneiss. | **1988–89**: EM survey, dd. | grp N/A | Initial results show grades of 12–18% C in a zone at least 150 m long and 80 m wide. (Soquem, 1988–89 AR). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 131 | LAFONTAINE (NORZINC)<br>Gracefield Explns Inc<br>31 J/4<br>46°07.0' 75°57.8' | Sph, po, gal in a Grenville calc–silicate rock. The Lafontaine deposit is at least 1,200' long, 4' wide and 40' deep. | **1945**: discovery.<br>**1947–52**: geoph surveys, rock trenching, dd, erection of 50–ton mill.<br>**1953**: small tonnage milled.<br>**1985–86**: VLF EM and mag surveys, dd. | 30,000 at 12% Zn to 40' ***1953***<br>(L Phelan 09/03/53 ***in*** Prospectus, Norzinc ML, 1953)<br>***or*** 19,500 at 9.55% Zn, avg width 5.4' ***1985***<br>(Gracefield Explns Inc, ASE LS 87–120, 1987) |  |
| QUE. 132 | LEITCH<br>Gracefield Explns Inc<br>31 J/4<br>46°07.8' 75°57.3' | Stratiform and metamorphosed shale–hosted type deposit of exhalative origin; in Grenville crystalline limestone. | **1970**: discovery, surface work, dd.<br>**1977–78**: geoph, dd.<br>**1980–81**: dd.<br>**1986**: dd. | 116,500 prov and prob at 6.79% Zn, avg width 12' ***1985***<br>(Gracefield Explns Inc, ASE LS 87–120, 1987) |  |
| QUE. 133 | ORRWELL (BOUTHILLIER)<br>Harkema Industries L<br>31 J/5<br>46°21.6' 75°33.0' | Flake graphite in lenticular masses and veins in Grenville–type limestone. Main vein is 400' long, 20' wide, 400' deep. | **1956**: discovery.<br>**1957**: stripping, minor dd.<br>**1981**: 4,500' dd, bulk sampling and testing.<br>**1982**: further dd and testing.<br>**1983**: dd. | 1,936,895 at 7.2% C ***1983***<br>(NM 1/09/83) | Test on 11,000 tons recovered 96.7% graphite of which 60–70% was flake variety. |
| QUE. 134 | CAPRI<br>V Audet (in 1985)<br>31 J/12<br>46°38.5' 75°55.3' | U–Th minerals associated with pegmatite in Grenville–type metasediments. | **1954, 1968–72**: rad surveys, trenching, sampling, dd. | c 1,000,000 at 0.5–1.0 lb/t $U_3O_8$ ***1969***<br>(NM 18/11/75)<br>***or*** 9,000,000 at 0.42 lb/t $U_3O_8$ ***1970***<br>(Que MIQ 1968–70, p 143) | Property was still held in 1988 (holder unknown). |
| QUE. 135 | ALLIED MINING – LEMAN<br>Bissent Expln L (in 1985)<br>31 J/14<br>46°55.7' 75°05.2' | N/A. Prob similar to, but lower grade than, Axe Lake deposits. | **1969**: airborne and ground rad surveys, trenching, dd. | 13,321,000 at 0.38 lb/t $U_3O_8$ ***including*** 3,386,500 at 0.55 lb/t $U_3O_8$ ***1970***<br>(Allied Mng Corp, 1970 AR) | The property came open in 1987. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 136 | AXE LAKE (MEKOOS GROUP)<br>H Schnapka<br>31 J/14<br>46°54.7′ 75°06.6′ | Uraninite unevenly disseminated in biotite paragneiss, feldspathic qtzite and white metamorphic pegmatite. Th/U ratios do not exceed 0.1. | **1968–69**: airborne and ground rad and mag surveys, geochem survey, trenching, dd.<br>**1971–80**: dd, trench sampling, ground and airborne geoph surveys.<br>**1981**: dd. | 180,000 at 0.79 lb/t $U_3O_8$ ***1969*** (CMH 1979–80, p 151) ***or*** c 1,000,000 at c 1.2 lb/t $U_3O_8$ ***1969*** (J B Sawyer 18/07/78, rept to Phoenix Electric Oil Refiners Can L) |  |
| QUE. 137 | TOM DICK<br>Mont–Laurier Uranium Ms Inc (in 1981)<br>31 J/14<br>46°52.1′ 75°08.9′ | Thorian uraninite and uranothorite in biotite paragneiss, white metamorphic pegmatite and feldspathic qtzite. Th/U ratios vary between 1 and 2. | **1969–74**: airborne and ground rad surveys, trenching, bulk sampling, dd.<br>**1978**: ground rad survey, rock sampling. | 1,530,000 at 1 lb/t $U_3O_8$ ***1971*** (NM 26/08/71) | Explored by Soquem in 1980–81, the property came open in 1987. |
| QUE. 138 | RENZY LAKE<br>Renzy ML<br>31 K/15<br>46°48.9′ 76°41.9′ | Disseminated and massive po, cp, pn in peridotite. The main ore zone is U–shaped, extends 1,500′ along axial direction and to 180′ depth. | **1955–56**: geoph surveys, dd, metallurgical tests.<br>**1965–66**: IP survey, dd.<br>**1969–72**: o/p prod; 789,276 tons milled.<br>**1973–74**: operations resumed for one month, ceased after crushing plant was destroyed by fire. | 1,331,816 prob and poss at 0.70% Ni, 0.70% Cu, 0.05% Co ***1972*** (Renzy ML, letter to shareholders 20/09/88) |  |
| QUE. 139 | NARCO<br>Intl Thunderwood Explns L<br>31 L/10<br>46°35.6′ 78°58.4′ | Kyanite occurs in crystals averaging 2 cm in length within a Grenville muscovite–biotite–garnet– tourmaline schist. | **1966–67**: bulk sampling and testing.<br>**1967–69**: o/p mining and on–site test milling, dd.<br>**1987**: mineralogical study. | 3 to 200 million at 8–22% kyanite, 3–28% muscovite, 3–13% garnet plus biotite and qtz ***1969*** (Que GM–20543, 1967; Que GM–25541, 1969) | Widely divergent estimates. During test milling grade of kyanite was found to be at the lower end of the scale, insufficient to warrant exploitation, even with concomitant recoveries of garnet and muscovite. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 140 | GAGNÉ–DUCHESNE (ALOTTA)<br>Alotta Res L<br>31 M/6<br>47°28.1' 79°15.2' | Dis to mass sulphs in gabbro. | **1967–68**: mag and EM surveys, dd.<br>**1988**: Max–Min EM survey, disc by dd. | 164,000 at 0.58% Ni, 0.60% Cu ***1988***<br>(Alotta Res L, 1988 AR) |  |
| QUE. 141 | MIDRIM<br>Internat'l Larder Res Inc<br>31 M/6<br>47°28.3' 79°14.0' | Three mineralized lenses in gabbro, delimited between surface and 480' depth. | **1964**: prospecting.<br>**1965**: EM, IP, SP and mag surveys, dd.<br>**1967–68**: discovery of Midrim zone, geoph surveys, trenching, bulk sampling, dd.<br>**1972**: IP survey.<br>**1977**: re–evaluation.<br>**1978**: dd. | 428,300 at 0.7% Cu, 0.46% Ni, $2/t PGE ***1968***<br>(NM 19/03/70)<br>***or*** 268,845 at 0.875% Cu, 0.639% Ni ***1977***<br>(R Kidd 12/04/77, rept to Royco Mng CL) |  |
| QUE. 142 | WRIGHT MINE<br>Intl Thunderwood Explns L<br>31 M/6<br>47°25.4' 79°29.5' | A vertical breccia pipe, in Archean agglomerate, comprised of angular fragments of rhyolite and dacite cemented by calcite with argentiferous gal, some py, native Ag and qtz. | **1686**: shown by Indians to French explorers.<br>**c 1875**: minor excavation and ore shipment by E.V. Wright.<br>**1887, 1890–91**: shaft sunk with two levels, mill erected, small scale ore treatment and shipments.<br>**1895–1903**: *shaft deepened* to 350', two new levels, minor shipments.<br>**1915, 1925**: dewatering, resampling.<br>**1948**: dd.<br>**1952**: mine dewatered, u/g dd.<br>**1970–72**: EM, IP surveys.<br>**1980–81**: geoph, dd. | 75,900 recoverable and broken above 330' level plus 25,000 poss below, at 5% Pb, 1.8% Zn, 1.5 oz/t Ag ***1952***<br>(Que PR 330, p 39, 1956) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 143 | **AUBELLE**<br>JAG ML<br>31 M/7<br>47°24.2′ 79°42.6′ | Small and erratic ore shoots comprised of a series of qtz lenses, up to 200′ long and 6′ wide, in a fracture zone in tuffs and intrusive porphyry. | **1944–47**: surface work, dd 530′ shaft with 3 levels and 3,600′ lateral advance.<br>**1984–86**: IP survey, channel sampling, dd.<br>**1988**: shaft dewatered, drifts sampled. | 80 700 mt prov and prob at 3.86 g/t Au ***plus*** 273 000 mt poss at 3.50 g/t Au ***1986***<br>(Que DV 88–01, p 51, 1988) | In 1989, a portable mill was being installed to treat material from surface and underground. |
| QUE. 144 | **BELLETERRE MINE**<br>Riverton Res Corp<br>31 M/7<br>47°24.9′ 78°40.6′ | Gold–bearing quartz–veins cutting basic flows. | **1933–35**: disc, dd, shaft sinking.<br>**1936–59**: milled 2,400,000 at 0.32 oz/t Au.<br>**1983–86**: dd. | ***(i) No 14 Vein***: 190,000 developed at 0.187 oz/t Au plus 100,000 poss, below 500′<br>***(ii) No 12W–26 Vein***: 150,000 proven at 0.160 oz/t Au<br>***(iii) No 16 Vein***: 50,000 prob at 0.19 oz/t Au<br>***(iv) No 2 Vein***: 15,000 poss at 0.33 oz/t Au<br>***1959***<br>(Info–Explo 30/11/87)<br>***or*** 467 208 mt at 6.17 g/t Au<br>(DV 88–01, p 51, 1988) |  |
| QUE. 145 | **KELLY LAKE**<br>Moneta Porcupine Ms Inc<br>31 M/7<br>47°20.5′ 78°52.0′ | Po, cp, violarite, pn in a vertical zone, 1,500′ long by 30′ wide, at the contact between gabbro and rhyolite. | **1928**: trenching, sampling.<br>**1948**: dip needle survey, dd.<br>**1952–53**: dd.<br>**1956–58**: airborne and ground geoph, dd, metallurgical tests.<br>**1964**: dd.<br>**1968–71**: dd, feasibility study, metallurgical tests.<br>**1987**: bioleach tests. | 1,250,000 at 0.65% Cu, 0.59% Ni to 900′ ***1964***<br>(NM 17/12/70) | A bulk sample of dd core averaged 0.77% Ni, 0.63% Cu, 0.12 oz/t Ag, 0.003 oz/t Au, 0.029 oz/t Pt.<br>Pt/Pd ratio is about 1.5. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 146 | LAKE EXPANSE<br>Mentor Expls & Dev CL<br>31 M/7<br>47°28.7' 78°39.4' | Lenticular qtz veins. | **1945**: rock trenching, dd.<br>**1950–52**: Belleterre No. 5 shaft sunk, raise sampling above 175' level; trenching and sampling of North zone.<br>**1988**: mag, VLF–EM. | ***(i) Shaft zone raise***: 110' x 3.6' at 0.377 oz/t Au; 60' x 3.1' at 0.356 oz/t Au<br>***(ii) North zone***: 55' x 6.5' at 0.459 oz/t Au; 45' x 3.5' at 0.263 oz/t Au; 69' x 8.9' at 0.202 oz/t Au ***1952***<br>(Mentor Expls & Dev CL, 1975 AR) |  |
| QUE. 147 | LETT LAKE<br>Internat'l Thunderwood Res Inc<br>31 M/7<br>47°20.2' 78°53.6' | Cp, po, py as magmatic segregation in gabbro. | **1956**: mag survey, dd.<br>**1957**: mag–EM survey, dd.<br>**1963–64**: dd. | 250,000 at 0.45% Ni, 0.45% Cu ***1963***<br>(Que GM–13740, 1963) |  |
| QUE. 148 | GAGNÉ–DALLAIRE<br>Allotta Res L<br>31 M/10<br>47°30.9' 78°44.3' | Two deposits close together at the rim of a 2 sq–mi oval–shaped mafic pluton. Magmatic segregation of disseminated py with lesser cp, po, pn, in amphibolite. | **1958–60**: mag–EM surveys, dd.<br>**1961–62**: IP, SP and mag surveys, dd.<br>**1962–64**: dd.<br>**1967–72**: geochem, mag and EM surveys, dd.<br>**1976**: dd.<br>**1977**: IP survey. | 237,200 at 0.87% Ni, 0.42% Cu in 2 deposits ***1967***<br>(Vista Expls L Prospectus 1976) | Over 30,000' of drilling to date, together with geoph and geochem coverage, appears to have delimited the potential of these deposits. |
| QUE. 149 | CÉRÉ (VILLEBON Ni)<br>La Fosse Platinum Gp Inc<br>31 N/14<br>47°54.3' 77°16.4' | Copper–nickel sulphides in a peridotite dyke. | **1967**: disc., mag–EM, dd.<br>**1968, 69, 71, 87**: dd. | 214,500 at 0.75% Ni, 0.57% Cu ***1987***<br>(La Fosse Platinum Gp Inc, 1987 AR) | Sampling for PGE in 1987 gave values of 0.3–3.0 g/t. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 150 | LAMY<br>Koizumi Group Can L<br>31 O/15<br>47°56.9' 74°37.1' | The deposit is tabular, 2,400' by 750', by 75' thick, apparently concordant with the enclosing low–dipping charnockitic gneiss and is probably intrusive in origin. | **1971**: surface work, dd.<br>**1984–85**: pilot plant testing. | 11,250,000 at 70–85% phlogopite, 5% apatite *c 1971*<br>(Que GM–29704, –05, –06) | |
| QUE. 151 | BÉDARD<br>Suzorite Mica Products Inc<br>31 O/16<br>47°57.3' 74°20.6' | The deposit is 2,800' long by up to 1,100' wide, by poss 600' deep, enclosed by a charnockitic gneiss which it probably intrudes. It is compact and uniform, containing 80–95% phlogopite, 4–8% pyroxene, 2–6% feldspar and minor apatite. | **1960**: discovery.<br>**1961–63**: stripping, trenching.<br>**1963–69**: dd, lab and pilot plant tests.<br>**1973**: deep dd, pilot plant operated.<br>**1975**: delamination plant erected in Boucherville. | 28,000,000 at c80% phlogopite ***1988***<br>(Corona Corp 10–K, 1988) | The mica is suitable for use as oil well drilling mud, in joint cement compounds, as reinforcing agent, as filler in plastics and as asbestos replacement. Intermittent small o/p producer, 1974–87, supplying the mica plant at Boucherville. |
| QUE. 152 | SUZORITE (SISCOE)<br>Suzorite Mica Products Inc<br>31 O/16<br>47°57.2' 74°22.2' | A steeply dipping deposit of coarse–grained phlogopite, 18% feldspar, 10% apatite, with lesser pyroxene, in charnockitic gneiss. Occurs as a lens 1,200' by 200', to 300'. Probably of intrusive origin. | **1936**: discovery.<br>**1945**: bulk sampling.<br>**1946–48**: o/p extraction and shipments. | 1 172 000 mt at 60% phlogopite, 10% apatite<br>(Que GM–36493, p 5, 1980) | |
| QUE. 153 | LAC ÉDOUARD<br>Soc Min d'Expl Somex Ltée<br>(in 1984)<br>31 P/9<br>47°39.5' 72°22.4' | The deposit occurs at the southern edge of a gabbroic mass enclosed by Grenville–type gneisses. Probably derived by magmatic segregation of sulphides. | **Pre–1969**: discovery, surface work.<br>**1970–71**: dd.<br>**1972–74**: milled 63,333; Ni–Cu ore mined by o/p. | 12,000 at 1.5% Ni, 0.5% Cu ***1974***<br>(Que DP–226, p 7, 1974) | Production ended when the mill was burnt in January 1974. Known ore was nearly exhausted. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 154 | CHASSEUR SUZORITE<br>Laduboro L<br>31 P/10<br>47°43.8′ 72°41.2′ | The deposit measures 800 m by 100 m. It apparently intrudes Grenville–type injection gneisses. It is composed of 43% phlogopite, 36% tremolite, 14% feldspar, and 4% diopside. | **1960**: discovery.<br>**1973–75**: trenching, bulk sampling and testing.<br>**1978**: dd.<br>**1980–81**: mag, EM and IP surveys, dd, bulk sampling, tests, feasibility study. | 380 000 T/VM at <50% phlogopite ***1981***<br>(Soquem 1980–81 AR) | Tested in 1980–81 by Soquem which found the grade too low and dropped its option. |
| QUE. 155 | GOLDMASTER<br>Oasis Res Inc<br>32 B/13<br>48°57′ 75°50′ | Narrow mineralized qtz veins and veinlets in black cherty tuffs in three zones occurring within a structure 60′–100′ wide and 2,000′ long. | **1949–51**: discovery, resistivity survey, dd, shaft and lateral dev on 1 level.<br>**1965**: mag survey.<br>**1966**: dd.<br>**1984**: mag, EM.<br>**1985–86**: dd. | 563,517 at 0.18 oz/t Au ***1988***<br>(Info–Explo 6/09/88)<br>***or*** 525,000 at 0.135 oz/t Au ***1987***<br>(Oasis Res Inc, 1987 AR) |  |
| QUE. 156 | LACOMA<br>Western Quebec ML<br>32 C/2<br>48°09′14″ 76°54′59″ | Veins and lenses of gold–bearing qtz and py in masses of silicified carbonate rock within a diorite dyke. | **1925**: disc, tr, sampling.<br>**1931–32**: dd, sampling.<br>**1935**: shaft to 263′, 2 Ls.<br>**1938**: dd.<br>**1940**: workings dewatered, lateral advance, dd u/g.<br>**1965, 84**: dd. | ***(i) East zone***: 76 175 mt poss at 6.8 g/t Au<br>***(ii) West zone***: 103 194 mt poss at 6.8 g/t Au ***1935***<br>(Que MB 88–08, p 46) |  |
| QUE. 157 | ABITIBI COPPER<br>Cons Abitibi Res L<br>32 C/3<br>48°05.0′ 77°27.0′ | Stratabound, volcanic exhalative deposit in felsic volcanics. Disseminated py and minor cp occur in two lenses between surface and 800′. | **1950**: geoph.<br>**1951–52**: dd.<br>**1956–57**: mag survey.<br>**1962**: mag survey, dd.<br>**1965–70**: deep and fill–in dd. | Ind & inf: 1,348,662 at 0.757% Cu, 0.006 oz/t Au, 0.15 oz/t Ag ***1970***<br>(Abitibi Res L, Prospectus 21/10/83) | T–G figures include 15.14% dil, and cutoff at 0.5% Cu across 4.0 ft. If cutoff of 1% across 7.0 ft is used, T–G is 375,862 at 1.36% Cu, 0.006 oz/t Au, 0.15 oz/t Ag.<br>Optioned by Aur Res Inc in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 158 | BEVCON–BUFFADISON<br>Cons Abitibi Res L<br>32 C/3<br>48°05.8′ 77°25.3′ | Two main sets of Au–bearing veins with strikes perpendicular to one another and moderate dips. In a sheared/fractured zone near the northern edge of the Bevcon granodiorite plug. Two rich veins were also mined in the HW volcanics. | **1931**: prospecting.<br>**1932, 1936–39, 1944–45**: dd.<br>**1946**: Bevcon and Buffadison shafts sunk.<br>**1947–65**: ore shipments and since 1951 on–site milling of 3,493,243 from Bevcon, Buffadison and Lencourt sections.<br>**1975**: dd.<br>**1980**: geoph.<br>**1983–86**: dd. | ***(i) Bevcon***: 101,500 developed at 0.130 oz/t Au ***plus*** 814,000 dd–ind at 0.115 oz/t Au, above 2,200′ ***1965***<br>***(ii) Buffadison***: 189,000 developed and dd–ind at 0.457 oz/t, to 1,000′ ***1965***<br>(VSE AL 84/80) | Recent dd has outlined 313,000 dd–ind at 0.206 oz/t Au above 700′L, accessible from the Buffadison shaft workings.<br>Aur Res Inc. optioned a 70% int in the property in 1989. |
| QUE. 159 | BROSNOR<br>Expln Brosnor Inc<br>32 C/3<br>48°06.8′ 77°24.5′ | Au in qtz–tourmaline veins filling flat–dipping fractures in a qtz–diorite sill. | **1945–47, 1950**: mag survey, dd.<br>**1962**: mag survey.<br>**1964**: dd.<br>**1976**: EM survey.<br>**1980–84**: dd.<br>**1986**: decline sunk to 325′ on the Adelmont zone. | 680 000 mt at 4.1 g/t Au ***1985***<br>(Que DV 85–02, p 62, 1985) | The tonnage is the total in Adelmont and Norcourt deposits which are 600 m apart on strike. |
| QUE. 160 | BRUELL–AURORA<br>a) Placer Dome Inc (Bruell)<br>b) Corp Min Nord Abitibi (Aurora)<br>32 C/3<br>48°07.6′ 77°17.5′ | Gold with qtz and tourmaline, sparsely mineralized with sulphides, in silicified shears in volcanics near a boss of qtz albite porphyry. | **1932**: prospecting.<br>**1934–37**: rock trenching, sinking of 2 prospect shafts, dd, sampling.<br>**1945–46, 1963**: dd.<br>**1979**: sampling, geoph survey.<br>**1980**: 4 ddh, EM survey.<br>**1986–87**: dd.<br>**1988**: IP and geochem survey. | ***(i) Discovery vein***: 43,800 at 0.23 oz/t Au in 700′ x 3′ x 200′<br>***(ii) No. 7 vein***: 125,000 at 0.11 oz/t Au in 430′ x 10′ x 350′<br>***(iii) No. 6 vein***: 13,300 at 0.12 oz/t (based on one ddh)<br>***1937***<br>(NM 04/11/37)<br>***(iv) Aurora***: 500′ x up to 30′ at 0.21 oz/t Au ***c 1934***<br>(NM 20/09/79) | Estimates are based on very limited drilling and surface sampling. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 161 | CROINOR–PERSHING<br>Cambior Inc & Dominion Explorers Inc<br>32 C/3<br>48°06.5' 77°01.1' | Gold in qtz veins and veinlets in at least seven shoots conformable to a 200' wide sequence of sheared tuffs and mafic flows.<br>The shoots average 500' along strike, 200' down–plunge, and 9.5' in diluted thickness. Deposit as a whole has a linear extent of 3,400', open along strike and below 500' depth. | **1931–38**: intermittent prospecting, trenching, dd.<br>**1944**: discovery of the main zone.<br>**1944–45**: dd.<br>**1946–48**: shaft sunk 644', lateral advance on 5 levels, surface and u/g dd.<br>**1953**: mag survey, dd.<br>**1961**: mag survey.<br>**1972**: mag and EM surveys, 6,800 shipped.<br>**1974–75**: re–evaluation, geoph survey.<br>**1979–80**: dd.<br>**1981–84**: surf and u/g dd; 1,300' decline, u/g sampling.<br>**1986–88**: dd. | 425,470 prob at 0.16 oz/t Au by Sullivan Mng Gp ***or*** 926,672 prob & poss (cut & dil) at 0.175 oz/t Au by Dom Explrs ***1984*** (Durham Res Inc, 1985 AR) | Dd in 1988 detailed 42,000 at 0.20 oz/t Au in 3 veins above the 125'L. A subsequent dd program explored veins at 600'–800' depths. |
| QUE. 162 | FORSAN (BLACK RIVER)<br>Exxeter Res Corp & Orient Res Inc<br>32 C/3<br>48°01.9' 77°10.1' | Gold, both free and associated with py, po, cp, asp, in a 2' thick qtz vein and smaller veins in and on either side of the contact between a qtz–feldspar porphyry dyke and agglomerate. | **1936**: discovery, trenching, sampling, dd.<br>**1964–65** mag survey, dd.<br>**1980**: dd, geoph survey.<br>**1983, 87, 88**: dd. | 165,216 prob at 0.138 oz/t Au plus 146,215 poss at 0.146 oz/t Au ***1988*** (Exxeter Res Corp, Release 30/05/88) | Tests had indicated an overall recovery of 96% Au by cyanidation. |
| QUE. 163 | JOSEPH CLAIMS<br>Cons Abitibi Res L<br>32 C/3<br>48°05.7' 77°26.7' | Disseminated cp, py, po and magnetite in the area of contact between intermediate volcanics and the Bevcon granodiorite. | **1968–69**: mag survey, dd. | Dd–ind: 116,675 at 1.56% Cu ***1969*** (CMJ April 1970) | Optioned by Aur Res Inc in 1989. |
| QUE. 164 | MONIQUE<br>Louvem Ms Inc<br>32 C/3<br>48°06.8' 77°26.0' | Gold occurs with some py, qtz and carbonate in parallel fracture zones cutting lapilli tuff beds at low angles. | **1945–46**: dd.<br>**1983–85**: dd.<br>**1987–88**: dd. | 381,370 prob at 0.178 oz/t Au and 420,530 poss at 0.180 oz/t Au ***1988*** (St. Geneviève Res L, 1988 AR) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 165 | REGCOURT<br>Moneta Porcupine Ms Inc<br>32 C/3<br>48°05.7' 77°21.4' | Free gold in qtz veins containing py and tourmaline in a fractured, silicified and carbonatized granodiorite. | **1937**: geoph survey, trenching.<br>**1944–46**: dd.<br>**1947–48**: shaft sunk with 3 levels.<br>**1948**: dd.<br>**1981**: geoph, dd. | 66,800 at 0.23 oz/t (0.16 oz/t cut) Au between 150' and 550' ***1983*** (Albany Oil & Gas L, 1983 AR) | The inventory comprises 37 lenses averaging 5.5' in width and occurring in 7 zones. |
| QUE. 166 | SIMON WEST<br>Louvem Ms Inc<br>32 C/3<br>48°00.8' 77°16.0' | Gold–quartz lenses occur in longitudinal shear zones in metamorphosed volcanic rocks. | **1939**: original discoveries, dd.<br>**1941**: mag survey.<br>**1946–47**: dd on Insmill zone.<br>**1964**: mag survey, dd.<br>**1980–81, 84, 86**: dd.<br>**1987–88**: dd, ramp sunk. | Prob:<br>***(i) Zone A***: 73,850 at 0.19 oz/t Au<br>***(ii) Zone B***: 37,500 at 0.20 oz/t Au<br>***1987***<br>(Les Affaires, 13/02/88) | Work was suspended early 1988 after funds ran out and before Zones A, B and C and the west extension of Chimo mine's No. 6 Zone could be sufficiently explored. |
| QUE. 167 | SLEEPY<br>Cambior Inc<br>32 C/3<br>48°03.5' 77°24.1' | Gold in a silica–rich phase of the Vicour sill. The zone measures 375 m x 5.1 m x 200 m deep. | **c 1988**: dd. | 275 000 mt at 5.9 g/t Au<br>***1988***<br>(Que GM–48234, 1988) | |
| QUE. 168 | SOUTH TIBLEMONT<br>Maufort Res Inc<br>32 C/3<br>48°10.3' 77°14.1' | Gold–bearing quartz vein zones in granite. | **1932–33**: first discoveries, tr.<br>**1934**: shaft sunk 240', advance on 2 Ls.<br>**1985–86**: surf sampling, VLF, mag and IP surveys, dd, bulk sampling.<br>**1987**: dd. | Poss: 87,000 at 0.17 oz/t Au to 400' ***1988***<br>(CMH 1988–89, p 304) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 169 | VAUQUELIN (NORDEAU)<br>Vauquelin ML<br>32 C/3<br>48°00.2' 77°12.2' | Three parallel gold–bearing lenses occur south of magnetite iron–formation, in sediments or volcanics. The zone is on the east extension of the Chimo mine zone. | **1946**: mag and geol surveys.<br>**1947**: dd.<br>**1957–58**: dd, beneficiation tests for iron.<br>**1962**: dd.<br>**1965**: EM survey.<br>**1980–82**: dd.<br>**1983–85, 87**: dd. | ***(i) West Block***: 140,000 prob at 0.18 oz/t Au ***plus*** 260,000 poss at 0.19 oz/t Au<br>***(ii) Nordeau Block***: 178,000 prob at 0.19 oz/t Au ***plus*** 202,000 poss at 0.17 oz/t Au<br>***1987***<br>(Vauquelin ML, 1987–88 AR) | Drilling has also indicated 100 million tons at 25% Fe in two zones in the vicinity. |
| QUE. 170 | VIANOR (WOOD)<br>Explorateurs Valroy L<br>32 C/3<br>48°15.0' 77°14.0' | Stockworks of qtz veins in granodiorite of the Pascalis–Tiblemont batholith. Qtz diminishes in volume with depth. | **1932–33**: discovery, rock trenching, dd.<br>**1934–35**: shaft sunk 117' with 1,600' lateral advance on 100' level.<br>**1936**: small amalgam mill testing.<br>**1952–55**: limited dd. | 20,000 at 0.43 oz/t Au to 80' ***1936***<br>(NM 15/10/36) |  |
| QUE. 171 | AKASABA<br>Cambior Inc<br>32 C/4<br>48°02.8' 77°33.9' | Au with dis sulphs in chloritized amphibolitic diorite and flows. | **1928**: discovery.<br>**1929, 1942**: dd.<br>**1944–45**: mag, dd.<br>**1951–52**: shaft sunk 321', advance on 2 Ls, dd.<br>**1959**: u/g dev.<br>**1960–63**: shipped 289,428 at 0.15 oz/t Au to Bevcon.<br>**1979–82**: geoph, dd.<br>**1987**: dd. | 400,000 at 0.15 oz/t Au across 10' ***1982***<br>(Soquem 1st Quarter Rept, 1982–83) | The resource is contained in four shoots, including pillars of the old mine. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 172 | BEACON<br>Aurizon ML<br>32 C/4<br>48°06.4' 77°33.0'<br>(Beacon Vein) | A series of ENE qtz–tourmaline–gold veins occur along the margin, mostly inside, of the Bourlamaque batholith and in the volcanics outside.<br>The E copper zone consists of sulphides in a chloritized dacitic fragmental. | **1930–34**: discovery, 269' shaft and advance on 2 levels, dd – LeRoy Vein.<br>**1937–41**: dd, LeRoy u/g workings advanced, resampled.<br>**1947**: dd, discovery of Beacon vein.<br>**1950–51**: 420' shaft on Beacon vein, dev on 4 levels.<br>**1968–69**: IP, SP, EM surveys, dd, discovery of the copper zones.<br>**1980–85**: declines sunk on Beacon vein and several veins discovered N of LeRoy vein; surface and u/g dd, 30,000 tons shipped for custom milling.<br>**1985–86**: shaft sunk on Discovery vein and a 600 t/d mill constructed.<br>**1987–88**: milled 132 000 mt at 2.4 g/t; closed due to heavy dilution. | ***(i) Gold zones***: 267 800 mt proven, prob and poss at 5.1 g/t ***1988*** (Aurizon ML, 1988 AR)<br>***(ii) E Copper zone***: 150,000 at 1.75% Cu ***1969*** (GCNL 21/02/83)<br>***(iii) D zone***: 75 000 mt at 1.90% Cu ***1969*** (GCNL 29/06/89) | Mine and mill were on standby after the brief production period was terminated due to excessive dilution in mining.<br>The eastern part of the property, containing D and E zones, and adjoining on the west the Louvem mine property, where Aur Res Inc has recently discovered a large base metal deposit, was optioned (49% int) in 1989 to Ezekiel Explns L. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 173 | BEAUFOR<br>Louvem M Inc &<br>Aurizon ML<br>32 C/4<br>48°09.5' 77°33.3' | Mineralized qtz veins filling fractured and sheared granodiorite at the eastern margin of the Bourlamaque batholith. | **1931**: discovery, dd.<br>**1932–35**: inclined shaft with 2 levels, dd.<br>**1935–36**: u/g workings extended into Beaufor from the Perron mine, shaft sunk.<br>**1939–42**: prod 177,000 t at 0.20 oz/t Au.<br>**1945–46**: surface and u/g dd.<br>**1949–51**: u/g workings extended from Perron on 825' and 1,375' levels, dd u/g.<br>**1983**: surf dd.<br>**1984**: u/g dd.<br>**1987–89**: shaft dewatered, lateral advance, dd, bulk sampling. | 49,921 proven at 0.227 oz/t Au, 89,593 prob at 0.219 oz/t Au, 201,446 poss at 0.222 oz/t Au ***1988***<br>(Louvem M Inc, 1988 AR)<br>***or*** 309 000 mt at 8.9 g/t Au<br>(Aurizon ML, interim rept to 30/06/89) | Exploration in 1987–89 focussed on the North Zone veins which dip in at 30–50° from the Perron mine, adjoining on the north. |
| QUE. 174 | BOUNTY (AUMAQUE)<br>Alotta Res L<br>32 C/4<br>48°05.3' 77°43.3' | Gold occurs in narrow massive sulphide veins and to a lesser extent in adjoining qtz veins. The zone with ore values is 4' to 6' wide and apparently occupies a shear in siliceous pyroclastics. | **1933–34, 1936, 1944**: dd.<br>**1945–47**: shaft and winze, advance on 5 levels, dd.<br>**1960**: mag survey, dd.<br>**1964**: dd.<br>**1966**: IP survey, dd.<br>**1984**: mag and EM surveys, dd.<br>**1987**: shaft dewatered, resampling; surf and u/g dd. | Poss: 199,400 at 0.25 oz/t Au **1947**<br>(Aumaque GML 22/04/49 letter to shareholders) | U/g resampling in 1987 reportedly confirmed the 1947 resource estimate. |
| QUE. 175 | CALLAHAN<br>Falconbridge L<br>32 C/4<br>48°09' 77°57' | Gold mainly in fracture and shear zones in altered monzonitic intrusives; some in basic volcanics. | **1945–47**: dd, two submarginal Au zones explored.<br>**1974–75**: mag survey, dd.<br>**1980–84**: dd.<br>**1985–86**: shaft sunk; crosscut to No. 4 zone on 240 m L, u/g dd. | Poss: 3 000 000 mt at 6.86 g/t Au, in 4 zones ***c 1983***<br>(Que DV 85–08, p 11, 1985) | Zones 1, 3 and 4 are under Lac de Montigny. A preliminary estimate of No. 4 zone gave 490 700 mt at 4.6 g/t Au ***1986***<br>(Que MB 87–48) |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 176 | COURVAN<br>Aur Res Inc &<br>Louvem Ms Inc<br>32 C/4<br>48°08.0′ 77°32.4′ | In the mine a number of auriferous pyritic qtz vein zones occur in sheared and fractured granodiorite at the eastern margin of the Bourlamaque batholith.<br>Southwest Gold is another such zone SW of mine workings.<br>Cross–fibre chrysotile in reticulating joints occurs in three zones in an isolated body of peridotite. | **1930–31**: pits, dd, shaft started.<br>**1932–35, 1937–42**: prod 310,000 at 0.12 oz/t Au from shaft with 5 levels. Operations closed after a fire.<br>**1945–46, 1963–64**: dd of Southwest Gold zone.<br>**1952, 1956–57**: dd of Asbestos zones.<br>**1980**: dd of SW Au zone.<br>**1984–88**: dd, geochem and geoph. | ***(i) Cournor Mine*** (mainly Creek zone): 340,000 at 0.121 oz/t Au across 4.3′ ***1942***<br>***(ii) Asbestos zones***: 4,070,000 at 2.5% asb in 3 zones ***1956***<br>(Que Fiche: V–Lou–4, 1975)<br>***(iii) Southwest Gold***: 239,100 prob at 0.22 oz/t Au ***1988***<br>(St. Genevieve Res L, 1st Q rept, 1988) |  |
| QUE. 177 | DUBUISSON EAST<br>Minefinders Corp L<br>32 C/4<br>48°04.7′ 77°50.1′ | Mnrl'n assoc with a feldspar porphyry dyke occurs in a SE–trending shear, 1.5 mi on strike from the Joubi deposit. | **1941, 64**: dd.<br>**1985**: geoph surveys.<br>**1985–88**: dd. | Dd–ind: 482,386 at 0.15 oz/t Au<br>(Minefinders Corp L, 1988 AR) |  |
| QUE. 178 | DUMONT BOURLAMAQUE<br>Cons Abitibi Res L<br>32 C/4<br>48°02.4′ 77°42.7′ | South zone occurs as veins in a brecciated andesite with mag and disseminated py, po, cp. It is pipe–shaped, occurring at depths from 100′ to 400′.<br>North zone is volcano–exhalative disseminated po, py, cp in andesite. | **1932–69**: trenching, limited dd, geoph.<br>**1969**: acquired by Dumont, delineation by dd of North and South zones.<br>**1973**: dd.<br>**1980–82**: decline driven on South zone to 350′ L and 79,873 at 0.19 oz/t shipped.<br>**1983–84**: 25 000 mt shipped from stockpile.<br>**1985–86**: Pulse EM and mag surveys, dd.<br>**1988–89**: dd. | ***(i) North zone***: 120,700 ind and inf to 100′ ***and/or (?)*** 784,500 poss to 650′, at 1.00% Cu, 0.112 oz/t Au ***1979***<br>(Mid Canada G & Copper ML, VSE AL 84/80, 1980)<br>***(ii) South zone***: 25 000 mt at 5.24 g/t Au<br>(Que DV 84–06, p 41, 1984) | Optioned by Kingswood Explns (1985) L in 1989. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 179 | **DUNRAINE**<br>Cambior Inc<br>32 C/4<br>48°04.4' 77°34.2'<br>(No 4 Zone) | The Dunraine copper deposits occur in felsic pyroclastics and are thought to be of volcano–exhalative origin. They consist of massive to disseminated cp, sph and py.<br>The East Au deposit is a ladder system of low-dipping qtz–tourmaline–pyrite veins in a small sill of granodiorite. | **1932**: trenching of Nos 2 and 3 zones.<br>**1937**: dd, discovery of No 4 zone.<br>**1942–55**: dd of 206 holes.<br>**1951–55**: shaft sunk 730' with dev on 5 levels on No 4 zone.<br>**1956–58**: prod Cu, Au, Ag from 280,768 in No 4 zone. Shaft sunk 1,135' and dev on 7 levels on No 2 West zone.<br>**1959**: dd of No 2 zone.<br>**1960**: u/g dev on No 2 West zone.<br>**1964–69**: mag, IP, EM and geochem surveys, dd. | ***(i) No 2 West***: 740,000 at 1.13% Cu ***1960***<br>***(ii) No 2***: 1,000,000 at 1.0% Cu ***1959***<br>***(iii) No 3***: 1,200,000 at 1.3% Cu ***1959 ?***<br>(Que DP–367(v), p 74, 1976)<br>***(iv) No 4***: 121,800 at 1.50% Cu after dilution ***1958***<br>(FP Corp Serv, Rainville ML 24/08/60)<br>***(v) East Au***: 900' x 4.2' ind by 5 ddh at 0.61 oz/t Au (uncut) ***1952***<br>(J M Thompson 04/12/52 *in* Prospectus, Rainville Copper ML, 1953) | From 1972 through 1988 Soquem and Cambior reported spending $1.3 million on unspecified exploration work. |
| QUE. 180 | **EAST SULLIVAN**<br>Exploration Dennor Inc<br>32 C/4<br>48°04.3' 77°42.5' | Au with qtz, sericite, carbonates, tourmaline and minor sulphs in a shear in Centre Post syenitic stock.<br>The Cu–Zn orebodies occurred as massive sulph lenses of volcano–exhalative origin, in pyroclastics. | **1944–45**: discovery of Cu–Zn orebodies.<br>**1949–66**: prod 156,000 tons Cu, 80,000 tons Zn, 3.5 M oz Ag, 114,000 oz Au, 19,000 lt py from 16.5 Mt milled.<br>**1950**: discovery of Au zone 3,000' east of shaft by surface dd.<br>**1950–51**: crosscut to Au zone on 1,050' L and dd u/g.<br>**1958**: 3 ddh from surface.<br>**1981**: mag, EM, 4 ddh.<br>**1987–88**: dd. | 243,813 prob at 0.148 oz/t Au ***plus*** 278,830 poss at 0.165 oz/t Au ***1988***<br>(Info–Explo 25/07/88) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 181 | ELMAC<br>Placer Dome Inc<br>32 C/4<br>48°05.8' 77°54.7' | Gold in quartz veins and veinlets cutting diorite, feldspar porphyry, and tuffs, north of the Cadillac Break. | **1919**: first discoveries.<br>**1922**: dd.<br>**1925**: shaft and winze reached 282'L, drifting.<br>**1932–33**: mine reopened, bulk sample milled.<br>**1945–46**: mine reopened, drifting, surf and u/g dd, mag survey.<br>**1962–65**: geoph survey, dd.<br>**1981–83**: dd. | 100 000 mt at 20.5 g/t Au ***1946***<br>(Que DPV–868, p 62, 1982) |  |
| QUE. 182 | GEOMAQUE (SILVERMAQUE)<br>Geomaque Explns L<br>32 C/4<br>48°03.3' 77°44.8' | Au in diorite within the Cadillac Break. | **1936–40**: mag, EM, dd.<br>**1945–56**: mag, gravity, EM, dd.<br>**1979–80**: geoph, geochem, dd.<br>**1987–88**: dd | Dd–inf: 100,000 at 0.20 oz/t Au<br>(Geomaque Explns L, Release 25/07/88) |  |
| QUE. 183 | GOLDEX<br>Goldex ML<br>32 C/4<br>48°05.4' 77°52.0' | Shears and fractures in granodiorite sill filled by veinlets of mineralized qtz. | **1930s**: surface work.<br>**Pre–1957**: minor dd.<br>**1963-66, 1968–69**: dd.<br>**1972**: decline advanced 2,400'.<br>**1973–75**: u/g dd; bulk sample testing.<br>**1980**: shipped 6,460 from stockpile.<br>**1983**: dd.<br>**1985–89**: shaft sunk 1,500', dev on 3 Ls, bulk sampling, dd. | Proven, diluted: 857,851 at 0.073 oz/t Au on 1,100'L ***1988***<br>(Goldex ML, 1988 AR) | Accurate grade determination has required extensive bulk sampling, due to a marked nugget effect obtained by conventional sampling.<br>No resource estimate has been published for the Dalton section, a SE extension of Main zone. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 184 | HARRICANA<br>Intl Baslen Enterprises L<br>32 C/4<br>48°06.5′ 77°47.0′ | The principal gold–bearing qtz veins occur in a dyke of feldspar porphyry between 200′ and 300′ levels. | **1934–35**: Au discoverd by dd, pits sunk.<br>**1936**: dd.<br>**1937–38**: shaft sunk, advance on 3 levels, dd.<br>**1944–45**: mag survey, dd.<br>**1946**: shaft deepened to 780′ with work on 4 new levels, dd.<br>**1980–81**: dd, EM and mag survey.<br>**1986–87, 89**: dd. | ***(i) Vein 13***: 25–30,000 at 0.26–0.53 oz/t Au ***1938***<br>***(ii) Hydro Vein***: 26,000 poss at 0.111 oz/t Au (NM 4/07/88) |  |
| QUE. 185 | JOUBI<br>Western Quebec ML<br>32 C/4<br>48°05.0′ 77°50.8′ | Gold–bearing qtz veins in a sheared zone in andesite. Resource estimate comprises three parallel shoots in an area 400′ long and 60′ wide. | **1914**: prospect shaft.<br>**1934**: dd.<br>**1941–45**: dd.<br>**1964**: mag survey.<br>**1973–74**: dd.<br>**1981–86**: dd.<br>**1987–89**: Audet shaft sunk 253 m, u/g dev and dd. | Dd–ind: 540 000 mt at 5.8 g/t Au ***1986*** (NM 13/10/86)<br>***or*** prob & poss: 294 170 mt at 5.82 g/t Au ***1987*** (NM 26/10/87) |  |
| QUE. 186 | KIENA<br>Kiena GML<br>32 C/4<br>48°07.2′ 77°54.9′ | Zones of shearing and brecciation in basic volcanics filled by gold–bearing qtz. | **1919–30**: first discoveries, trenching, dd.<br>**1934–35**: dd.<br>**1936–37**: u/g dev in Kiena and Wisik sections.<br>**1938**: North zone found by dd.<br>**1939–41**: u/g dev at Kiena, dd.<br>**1961–62**: dd, discovery of Main zone in Kiena section.<br>**1963–65**: new shaft sunk on Parker I 1,324′ with dev of S–50 and South Zones on 8 Ls.<br>**1979**: shaft dewatered and preprod preparation. | ***(i) North zone***: 500,000 at 0.14 oz/t Au ***1941*** (NM 19/12/63)<br>***(ii) Actinolite zone***: 8,000 at 0.23 oz/t Au ***1937*** (Que Fiche: V–Dub–4)<br>***(iii) Wisik vein, 300′ L***: 365′ x 5.75′ at 0.10 oz/t Au, 93′ x 8.7′ at 0.45 oz/t Au, 26′ x 8.5′ at 0.30 oz/t Au ***1937*** (Que PR 120, p 13, 1938)<br>***(iv) C vein***: 50 m x 1.8 m at 7.9 g/t c ***1938*** (TSE LS 3042, 1984) | These zones underlie islands and waters of Lac de Montigny.<br>A producer since 1981, the Kiena mine is exploiting mainly the S–50 and South zones, developed from a shaft sunk on Parker I in 1963. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 187 | LAMAQUE MINE<br>Tundra GML<br>32 C/4<br>48°05.6′ 77°45.9′ | Gold–bearing qtz veins fill fractures in several plugs of granodioritic to dioritic composition.<br>In No. 2 mine area gold occurs in flat or low–dipping quartz veins. | **1923**: first gold discovery.<br>**1935–85**: milled 26,600,000 at 0.19 oz/t Au.<br>**1985–89**: extensive surf and u/g expln. No production. | Proven & prob (cut):<br>***(i) Main Mine***: 319,930 at 0.164 oz/t Au<br>***(ii) No. 5 Plug area***:<br>***a) 35 Vein***: 71,000 at 0.234 oz/t Au; ***b) 1800′L North Shear***: 54,000 at 0.452 oz/t Au<br>***(iii) No. 3 Mine***: ***a) No. 10 Vein***: 221,000 at 0.22 oz/t Au; ***b) Parallel Zone 310 Area***: 103,000 at 0.264 oz/t Au<br>***(iv) No. 4 Plug***: 970,000 at 0.176 oz/t Au<br>***1988***<br>***or*** dd–ind: 1,786,092 at 0.195 oz/t Au (cut to 1.0 oz/t)<br>***1989***<br>(GCNL 10/03/89) | Dd in early 1989 was giving encouraging results in the West Plug area.<br>Tundra GML, having earned a 50% interest in the property, is working towards earning 100%. |
| QUE. 188 | LOUVEM (AUR)<br>Louvem Ms Inc &<br>Aur Res Inc<br>32 C/4<br>48°05.9′ 77°31.0′ | Mass sulph lenses of volcano–exhalative origin occur in pyroclastics at intervals over a distance of 4,500′. | **1968**: discovery by dd of Turam conductor.<br>**1970–78, 1980–81**: prod 2 mil tons from Cu–rich and Zn–rich lenses.<br>**1988–89**: dd. | ***(i) Louvem mine zones***: 600,000 at 5.5% Zn, 1.0 oz/t Ag, 0.02 oz/t Au (Aur Res Inc, Prospectus 1/05/86)<br>***(ii) Aur deposit***: 18 million at 2.8% Cu, 2.8% Zn, 1.00 oz/t Ag, 0.04 oz/t Au (prelim), ***incl*** 9 million at 4.2% Cu, 4.9% Zn, 1.8 oz/t Ag, 0.07 oz/t Au<br>***1989***<br>(NM 28/08/89) | Low metal prices, occurrence of ore in separate small lenses, lower grade, poor recovery and higher costs of production, all contributed to the decision to shut down.<br>The Aur deposit has been encountered at depths between 1,500′ and 2,000′ and has not been delimited by drilling as of October 1989. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 189 | LOUVICOURT GOLDFIELD (SIMKAR)<br>Louvicourt GM Inc & Ronrico Explns L<br>32 C/4<br>48°03'48" 77°33'54" | Gold with py in qtz veins in diorite dykes. At least 5 separate orebodies. | **1939**: disc, tr, dd.<br>**1944–45**: dd.<br>**1945–48**: shaft 975', 7 Ls.<br>**1947–49**: prod 261,590 at 0.123 oz/t Au, dd.<br>**1968**: Turam EM survey.<br>**1987–89**: u/g dev, surf and u/g dd, bulk sampling. | 159 000 mt proven and prob at 7.93 g/t Au, 49 954 mt poss at 8.99 g/t Au and 62 210 mt low grade at 3.81 g/t (all cut and diluted) ***1988***<br>(La Fosse Platinum Gp Inc, 1988 AR) | |
| QUE. 190 | MALARTIC GOLD FIELDS<br>Sphinx Mng C Inc & Goldstack Res L<br>32 C/4, D/1<br>48°06.7' 78°00.0' | Gold in qtz stringers in masses of diorite, roughly conformable with schistosity of the containing subsidiary zones of the Cadillac break. Lower grade orebodies were also mined in dykes of syenite porphyry. | **1936–38**: dd.<br>**1939–62**: prod 1,700,000 oz Au, minor Ag, from 9,874,175 t milled from 2 mines with extensive workings to 2,750' depth.<br>**1974**: dd.<br>**1981–88**: dd. | ***(i) No. 1 Mine, old tonnage***: 626,340 inf at 0.18 oz/t Au (dil) above 1,800' ***1981***<br>(GM Hogg & Assocs, 1982 rept)<br>***(ii) No. 1 Mine, new tonnage***: 495,923 prob at 0.158 oz/t Au (30% dil) ***plus*** 231,578 poss at 0.174 oz/t Au, all above 850' ***1988***<br>(Gpe Min Ariel; release 26/08/88)<br>***(iii) Chabela sector***: 151,979 at 0.20 oz/t Au ***1987***<br>(Soc d'Expln Aumine, Prospectus 12/05/87) | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 191 | MANITOU<br>Louvem Ms Inc<br>32 C/4<br>48°05.2' 77°36.6' | The deposits are volcanogenic. The Zn–Ag zone occurs at the top of a pyroclastic pile, in rhyolitic fragmentals. Abundant to massive py occurs with sph, minor gal and other mnrls. The Cu zone occurs in a pipe-like structure containing cp veinlets in rhyolite. The same pipe may have served as feeder for the Zn–Ag deposit. | **1923**: Cu zone discovered.<br>**1926–29**: trenching, minor dd, discovery of Zn zone.<br>**1937**: dd.<br>**1938**: shaft sunk with advance on 2 levels.<br>**1940**: u/g resampling and dd.<br>**1941**: shaft deepening; preprod dev.<br>**1942–79**: prod 8,360,000 Zn–Ag–Pb ore and 4,012,000 Cu ore, yielding c 335,000 tons Zn, 36,000 tons Cu, 26,000 tons Pb, 21,000,000 oz Ag and 300,000 oz Au. | ***(i) Zinc–silver***: c 100 000 at unstated Zn–Ag grade ***1979***<br>(Que DPV–737, p 66, 1980)<br>***(ii) Copper***: 99,260 at 1.11% Cu, 0.01 oz/t Au, 0.13 oz/t Ag ***1970***<br>(Que DP–367(v), p 92, 1976)<br>***(iii) Manitou tailings***: 6.8 million at 0.01 oz/t Au, 0.34 oz/t Ag, 0,07% Cu, 0.07% Pb, 0.36% Zn with a payable value of $7.45/mt ***1989***<br>(Finance 14/08/89) | The Manitou (Louvem) mill, which has been treating custom ore from other mines of the district, is adapting a circuit for treatment of the old mine tailings.<br>Gold Spinners Intl Inc acquired rights in 1988 to process the tailings. Recovery tests are underway.<br>Gold Vessel Res Inc optioned a 49% int in the mine property in 1989. |
| QUE. 192 | MINE SCHOOL<br>Western Quebec M Inc<br>32 C/4<br>48°06.0' 77°52.4' | Mineralized qtz veins filling fractures in andesite. | **1912–19**: trenches and pits.<br>**1932**: dd<br>**1935–37**: shaft, work on 2 levels.<br>**1937**: acquired by Que government.<br>**1938–42**: operated as Provincial Mine School to train miners, 2 new levels developed, minor prod; surface ore dressing plant treated custom shipments 1940–56.<br>**1983–86**: dd. | 12,480 at 0.17 oz/t Au ***1942***<br>(Que RP 182, p 26, 1943) | Calculated resources comprise 4 separate shoots developed on 3 levels. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 193 | NEW BIDLAMAQUE<br>Dufresnoy, Soc d'Expln Min Inc<br>32 C/4<br>48°06.7' 78°42.0' | Mnrl'n occurs in a WNW shear in brecciated and siliceous lavas. At least two veins containing Cu and Au occur in a length of 550' and width of 5.2'. | **1936–38**: discovery, dd.<br>**1944–45**: dd.<br>**1945–46**: shaft sunk 390' with 2,000' lateral advance on three levels, dd, mag and resistivity surveys.<br>**1949, 1956, 1970–71**: geoph, dd.<br>**1983–85, 88**: geoph dd. | Prob: 43,500 at 0.212 oz/t Au ***1988***<br>(Vior Mng Expln Inc, 1988 AR) | |
| QUE. 194 | NORLARTIC<br>Aur Res Inc<br>32 C/4<br>48°08.9' 77°59.4' | In the Main zone, a granodiorite dyke, intruded along a shear (Norlartic break), has been fractured and filled by gold–bearing veinlets and stringers. It was mined down to 1,000'.<br>The Southwest zone, parallel and 2,000' SW of the Main zone, occurs on the NW extension of the Marban Mine shear zone. | **1943–46**: dd.<br>**1946–48**: shaft sunk 540', workings extended on 4 levels, dd.<br>**1950–51**: u/g dev.<br>**1958–59**: shaft deepened to 1,050', 4 new levels, preprod dev on upper levels.<br>**1959–66**: prod 145,610 oz Au, 15,189 oz Ag from 1,139,443 milled.<br>**1974**: dd.<br>**1980–81**: dd, mag–EM.<br>**1985–86**: dd.<br>**1986–89**: workings dewatered, new shaft in Kierens zone, u/g dev.<br>**1988**: Kierens mine starts prod. | ***(i) Main zone***:<br>1,098,000 at 0.14 oz/t Au<br>***(ii) North zone***: 150,000 at 0.20 oz/t Au to 1,400' ***1988***<br>(Aur Res Inc, 1988 AR)<br>***(iii) North North zone***:<br>536 940 mt prob & poss at 3.57 g/t ***1986***<br>(Cogesco Mng Res Inc, prospectus 8/08/86)<br>***(iv) Southwest zone***:<br>500' x 2.6' dd–ind at 0.133 oz/t Au ***1966***<br>(Que Fiche: V–Vas–1) | The SE extension of the Gold Hawk zone on the west part of the property was discovered by dd in 1987 and later followed up by drifting from the Kierens workings. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 195 | NORTH PASCALIS<br>Louvem M Inc &<br>Aurizon ML<br>32 C/4<br>48°09.4′ 77°33.1′ | Mineralized qtz–tourmaline vein zones in shears and fractures inside the eastern margin of the Bourlamaque batholith. | **1930–32**: discoveries, trenching, dd.<br>**1936**: dd.<br>**1938–42**: workings advanced from two levels of Perron mine, and Pascalis shaft sunk 1,565′ with six levels; u/g dev, dd.<br>**1963–65**: dd.<br>**1974**: mag, VLF surveys.<br>**1984–88**: u/g workings dewatered, drifting, dd. | Ind: 570 000 mt at 9.5 g/t ***1986***<br>(Que DV 87–01, p 88, 1987) |  |
| QUE. 196 | ORENADA<br>Aur Res Inc<br>32 C/4<br>48°03.0′ 77°42.8′ | No 4 zone, located near the Cadillac Break, is a stratabound deposit hosted by a sedimentary unit intruded by a body of porphyry and cut by qtz–asp–py–tourmaline veins.<br>The Porphyry zone, consisting of cp in fractures, occurs mainly in volcanics near the contact with a syenite stock. | **1923–78**: trenches, pits; 120,000′ dd, various geoph surveys; No 4 and Porphyry zones each tested by at least 20 ddhs.<br>**1981**: mined by o/p and milled (at Lamaque) 18 500 mt at 1.8 g/t from No 4.<br>**1983**: 84 dd.<br>**1985–86**: shaft on No 4, dd on surf and u/g. | (i) ***No 4***: 740,000 at 0.16 oz/t Au to 850′ ***1984***<br>(Aur Res Inc, 1985 AR)<br>***or*** 4 million at 0.05 oz/t Au<br>(Aur Res Inc, 1988 AR)<br>(ii) ***Orenada–Ducros Porphyry Zone***: several million at 0.2% Cu plus Mo ***1973***<br>(NM 16/05/74) |  |
| QUE. 197 | QUEBEC EXPLORERS<br>Que Explorers Corp L<br>32 C/4<br>48°05.1′ 77°53.8′ | Gold–qtz veins fill fractured diorite and feldspar porphyry dykes intruding the Cadillac fault zone. | **1940, 1963–66**: dd.<br>**1969**: mag, EM, dd.<br>**1972–74, 1979–80**: dd.<br>**1981–82**: 2,259′ decline driven with 4,143′ lateral work on 340′ L, dd.<br>**1985–86**: dd.<br>**1987**: minor u/g dev, dd. | Dd–ind: 287,676 at 0.19 oz/t Au ***1987***<br>(Nova–Cogesco Inc, 1987 AR) | Recent work has diminished previous estimates by about 200,000 tons. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 198 | QUEBEC MANITOU (WRIGHTBAR)<br>Wrightbar ML<br>32 C/4<br>48°05.5' 77°35.1' | Volcano–exhalative sulphide deposit containing disseminations and massive veinlets of cp, sph, py in a series of en échelon lenses within a zone 1,800' long.<br>Gold occurs in two deposits 2000' apart within the same E–W shear in Bourlamaque batholith. | **1965**: discovery of *(i)* while blasting a hydro line right–of–way.<br>**1965–69**: dd.<br>**1985–86**: dd, disc of *(ii)*.<br>**1986–88**: inclined ramp sunk to 600' depth with 4,897' of lateral advance and 3,119' of track drift; surf and u/g dd on the Au zones. | ***(i) Copper Zone***: 763,254 at 1.26% Cu, 0.10 oz/t Ag, 0.002 oz/t Au ***1967***<br>(CMH 1977–78, p 261)<br>***or*** 536,000 at 1.31% Cu to 500'<br>(Wrightbar ML, 1987 AR)<br>***(ii) Gold Zones***: 304,000 at 0.227 oz/t Au to 500' ***1988***<br>(Wrightbar ML, 31/07/88 AR)<br>***or*** c 300,000 at 0.17 oz/t Au ***1986***<br>(NM 26/09/88) |  |
| QUE. 199 | RESENOR (SENORE)<br>Dassen Gold Res L<br>32 C/4<br>48°10.4' 77°33.5' | Gold in qtz veins filling shears and fractures in granodiorite near the east margin of the Bourlamaque batholith. | **1936–37**: dd.<br>**1939–41**: shaft to 500' with 3 levels, dd.<br>**1945–48**: u/g dev resumed, dd, mag survey.<br>**1959**: dd.<br>**1974**: mag survey, dd.<br>**1977**: EM, geochem, dd.<br>**1978**: dd.<br>**1983**: mag and IP surveys. | 200,000 at 0.25 oz/t Au ***1977***<br>(El Coco Expls L, VSE SMF 06/07/78) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 200 | SISCOE EXTENSION (NORTH SISCOE)<br>Maufort Res Inc<br>32 C/4<br>48°09.2' 77°50.8' | Erratic zones of gold in qtz veins: on the first level, in chloritic and talcose shears; on the second level in schist and diorite; in granite porphyry on both levels. | **1929**: electric survey.<br>**1930**: dd.<br>**1933–34**: shaft to 376', lateral advance on 350' level.<br>**1936–38**: shaft deepened to 750', advance and sampling on 350' and 725' levels, dd.<br>**1945**: shaft dewatered, preprod work started on 3 zones.<br>**1984**: mag & EM surveys.<br>**1986**: IP survey, dd.<br>**1987–88**: workings, dewatered, u/g dd. | 68,074 poss at 0.16 oz/t Au in 2 vein zones, avg 15.3' thick ***1988***<br>(Demontigny Mnrls Res Inc, ME LS 26/07/88) |  |
| QUE. 201 | SISCOE MINE<br>Maufort Res Inc<br>32 C/4<br>48°08.6' 77°52.2' | Gold in qtz veins on either side of the contact between the Bourlamaque batholith and volcs. | **1913–19**: disc, prospect shafts.<br>**1923–29**: u/g dev.<br>**1929–49**: prod 3,300,000 at 0.271 oz/t Au, 0.022 oz/t Ag.<br>**1985**: mag, VLF–EM surveys.<br>**1985–86**: dd.<br>**1986–89**: workings dewatered, u/g dd. | ***(i) Old mine***: 500,000 geol res at 0.34 oz/t Au<br>***(ii) Mainland vein (Zone 86)***: 177,874 geol res at 0.18 oz/t Au<br>***1986***<br>(Maufort Res Inc, release 1986) | Cambior relinquished its option on the property in 1989.<br>The old mine tailings have been investigated since 1987 by a joint venture of St. Geneviève Res L and Gold Spinners Intl Inc. |
| QUE. 202 | STABELL (JACOLA)<br>Stabell Res Inc<br>32 C/4<br>48°06.7' 77°49.3' | Gold in qtz veins in shears and fractures on either side of the contact between the Bourlamaque batholith and volcs. | **1910–20**: : disc, surf work.<br>**1923–24**: No. 1 shaft sunk 620', lateral drives on 2 Ls.<br>**1928–29**: more u/g dev.<br>**1933–36**: 65,000 prod from Stabell vein.<br>**1935–39**: No. 2 shaft sunk 1,026' with advances on 6 Ls.<br>**1943–46**: surf dd.<br>**1983–89**: dd, No. 2 shaft dewatered, u/g expl. | Dd–ind: 236,000 at 0.20 oz/t Au to 1,000' in 5 zones ***1987***<br>(Acquisitor ML, 1986–87 AR) | Acquisitor ML has earned 25% int, and can earn another 25% in the property. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 203 | SULLIVAN MINE<br>Charlim Explns L<br>32 C/4<br>48°07.7' 77°50.3' | Mineralized qtz veins filling shears and fractures in granodiorite of the Bourlamaque batholith. | **1911**: discovery, first in Val d'Or area.<br>**1911–20**: trenching, test pits.<br>**1929–30**: u/g dev on two levels.<br>**1932–33**: u/g dev.<br>**1934–68**: prod 5,085,518 at 0.233 oz/t Au, 0.072 oz/t Ag from workings on 28 levels.<br>**1980**: mag–EM, dd.<br>**1983, 87**: dd. | 344,000 at 0.218 oz/t Au ***1968***<br>(Que Fiche: V–Dub–1, 1975) |  |
| QUE. 204 | TEX–SOL<br>Dominion Explorers Inc<br>32 C/4<br>48°03.7' 77°34.8' | A series of mineralized gold veins occur between surface and 500 feet and between 900 and 2,000 feet. Apparently in feldspar porphyry, diorite and volcanics. Possibly on strike with Louvicourt Goldfield deposit. | **1946–48**: dd, discovery.<br>**1986**: IP, dd.<br>**1987**: dd. | 50,000 poss at 0.33 oz/t Au ***1948***<br>(Tex–Sol Explns L, 1983 AR) |  |
| QUE. 205 | VASSAN RESOURCES<br>Vassan Res Inc<br>32 C/4<br>48°09.8' 77°51.3' | In volcanics. | **1952–58**: dd.<br>**1985–86**: mag, VLF EM, IP.<br>**1985–88**: dd. | 36 000 mt prob at 0.19 oz/t Au plus 8 000 mt poss at unstated grade, in 2 zones<br>(Info–Explo 6/09/88) |  |

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| QUE. 206 | WESTERN QUEBEC<br>Wesdome Res L<br>32 C/4<br>48°09.5' 77°54.2' | Most of Au–bearing mnrl'n occurs in WNW fracture zones, typically consisting of qtz–py, generally in volcanics, but often abutting against the Snowshoe granitic stock. | **1933–34**: dd on NW extension of Siscoe K Zone.<br>**1936**: dd.<br>**1936–39**: shaft sunk 343' and 3,600' lateral work on 300' level, dd.<br>**1941**: mag survey, dd, workings dewatered, minor advance and dd u/g.<br>**1942–48, 1964–65**: mag survey, dd.<br>**1970**: mag, EM and IP surveys, dd.<br>**1974–76**: VLF–EM survey, dd.<br>**1976–89**: extensive dd. | ***(i) 'A' zone***: 1,166,000 at 0.12 oz/t Au ***1987*** (Sigma Ms (Que) L, 1987 AR)<br>***(ii) 'E' zone***: >900 000 mt prelim dd–ind at 7.2 g/t Au ***1988*** (Western Quebec ML, Interim Rept to 30/09/88) | Most of the ground underlies the waters of Lac de Montigny north of the Kiena, and west of the Siscoe mines. The shaft is located on a small island.<br>Other zones of interest include 'B' with 76,730 at 0.129 oz/t Au (NM 31/07/80), 'C', 'D' and 'F'. |

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| QUE. 207 | BARDOME PROJECT<br>Abcourt Ms Inc &<br>Val d'Or Res Inc<br>32 C/5<br>48°25.4' 77°39.7' | Three stratabound sulphide deposits, occurring at intervals along 3,500' in a zone of acid pyroclastics, and derived by volcanic exhalation. Massive to dissem py, po, sph, cp, gal in en échelon lenses make up these deposits. | **1946–53**: prospecting, geoph surveys, dd.<br>**1954–57**: shaft to 525' with 7,000' of drifts, crosscuts and raises on 3 levels, u/g dd.<br>**1972–75**: geoph and geochem surveys, deep dd, re–evaluation.<br>**1987**: decline ramp sunk on Vendome, dd. | ***(i) Vendome (Mogador)***: 935,000 proven and 186,000 ind at 7.3% Zn, 0.47% Cu, 0.34% Pb, 1.63 oz/t Ag, 0.034 oz/t Au to 500' ***plus*** 100,000 dd–ind at 1% Cu, between 500' and 625' ***1954***<br>(CIM Bull, v 53, p 274, 1960)<br>***or*** 393,000 at 8.61% Zn, 0.43% Cu, 0.45 Pb, 2.08 oz/t Ag, 0.041 oz/t Au to 500' ***plus*** another 300,000 lower grade<br>(Abcourt Ms Inc, 1987 AR)<br>***(ii) Barvallée***: 200,000 at 5.71% Zn, 1.23% Cu, 1.42 oz/t Ag ***1957***<br>(Que PR 406, p 10, 1959)<br>***(iii) Belfort (Roymont)***: 250,000 dd–ind at 7.00% Zn, 0.21% Cu, 0.12% Pb, 0.61 oz/t Ag, 0.011 oz/t Ag<br>(Que PR 529, p 4, 1964) | Ramps were to be driven in 1989 on the Barvallée and Belfort deposits. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 208 | CONS MOGADOR<br>A Beaudoin<br>32 C/5<br>48°24.7' 77°41.4' | Magmatic segregation of po, pn, py, cp in the metagabbroic basal member of a differentiated basic intrusive complex. The deposit is 300'–400' long at the surface, 500' at 950' depth, and is 150' wide. It carries minor Co, Ag and PGE values, in addition to Ni–Cu. | **1960–61**: mag, EM, SP, geochem surveys, dd.<br>**1962–65, 1967–69**: dd. | 350,000 at 0.82% Ni, 0.68% Cu to 1,200' ***or*** 500 T/VF to 600' ***1965*** (Que Fiche: V–Fie–1, 1975) | The tonnage–grade figures were roughly (grossièrement) estimated from drilling data. Further development is required to produce a firmer estimate. |
| QUE. 209 | FISHER<br>Explorations Minières du Nord L<br>32 C/5<br>48°29.4' 77°47.4' | A sheared and carbonatized zone in intermediate to basic volcanics contains qtz lenses and stringers with gold values in a length of 2,000'. | **1924–25**: discovery, pits, trenches.<br>**1926–28**: shaft sunk 215' with 615' lateral advance on one level, dd.<br>**1947**: surface sampling.<br>**1964**: dd.<br>**1971, 79–80**: mag–EM.<br>**1985**: IP survey.<br>**1986**: dd. | 50,000 at 0.22 oz/t Au<br>***1964***<br>(NM 20/07/72) | Nearby Randall 'mine', partly developed on 5 levels, was reported to contain 620,000 at 0.20 oz/t Au (NM 12/07/37), but subsequent work appears to have discredited this estimate. |
| QUE. 210 | MASSBERYL<br>Remart "in trust"<br>(in 1984)<br>32 C/5<br>48°23.3' 77°56.6' | Pegmatites, composed of perthite, qtz, plagioclase, muscovite and beryl, essentially in tabular bodies, occur within leucoadamellite phase of the Preissac–Lacorne batholith. | **Pre–1948**: discovery, pits.<br>**1955**: pits, trenches, dd.<br>**1969–70**: dd.<br>**1972**: stripping, bulk sampling, beneficiation tests. | 667 T/VF at 1.35% beryl plus feldspar, muscovite<br>***1971***<br>(NM 01/01/71) | The beryl is stated to contain 11.9% BeO. |

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| QUE. 211 | QUEBEC LITHIUM<br>Cambior Inc<br>32 C/5<br>48°24.8′ 77°48.8′ | Numerous subparallel spodumene–bearing pegmatite dykes cut amphibolitized volcanics and granodiorite comprising a NE protrusion of the Preissac–Lacorne batholith. | **1940–52**: stripping, trenching, dd.<br>**1954**: shaft sunk with 4 levels.<br>**1955–56**: prod 1,000,000 at 1.4% $Li_2O$ in 1,000 t/d mill; chemical Li refinery and Li hydroxide monohydrate plant erected 1960–61.<br>**1973–77**: pilot plant studies at Centre de Recherches Minérales.<br>**1985**: geoph, 1 ddh. | 20,000,000 at 1.3% $Li_2O$ to 500′ ***1966***<br>(CMH 1979–80, p 266) | A continuous process for the production of lithium carbonate, developed at CRM and tested on Que Lithium's ore, is said to be superior to the batch process previously used at the mine plant. |
| QUE. 212 | VENUS<br>Minerais Barexor Inc (North zone);<br>Ress Veinor Inc (South zone)<br>32 C/5<br>48°27′54″ 77°43′15″ | Veins (some gently dipping), lenses and stringer zones of qtz with tourmaline, py and minor cp in a carbonatized zone in basic volcanics. | **1925–32**: two shafts 200′ deep with 4,000′ lateral workings, dd, test mill operated 1931.<br>**1945–46**: geoph, dd.<br>**1982–87**: decline sunk on North zone; bulk sampling, dd.<br>**1986–87**: dd of South zone. | ***(i) North zone***: 56 880 mt at 5.8 g/t Au ***1983***<br>(Que DV 84–06, p 53, 1984)<br>***(ii) South zone***: 30,000 at 0.24 oz/t Au<br>(CMH 1989–90, p 394) |  |
| QUE. 213 | CARPENTIER PYROPHYLLITE<br>Ress Cache d'Or Inc<br>32 C/6, 11<br>48°30.0′ 77°27.6′ | North and South zones are short drilled–off segments, 7,000′ apart, of a continuous alteration zone, along a major shear zone in tuffs, averaging 150′ in thickness. It consists of a number of sub–zones containing variable amounts of pyrophyllite, qtz, chloritoid and pinite. | **1945**: dd.<br>**1958**: EM survey.<br>**1962**: mag, EM surveys.<br>**1964**: dd.<br>**1965–66**: dd of pyrophyllite by Domtar.<br>**1970–72**: mag surveys, chemical and petrographic analyses, dd. | 2,440,000 at 40% pyrophyllite in North and South zones ***1964***<br>(M Tremblay, paper read at CIM Ann Mtg, 1977) | There is large potential tonnage between and beyond the North and South zones, which are short segments of the same zone at least 8,000′ long.<br>In 1988, as prior to 1965, the property was investigated as a gold prospect. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 214 | JOLIN<br>Abitibi Metals Ms L<br>32 C/6<br>48°26′27″ 77°26′43″ | Quartz veins in schistose volcs and qtz–feldspar porphyry. | **1932**: tr, sampling.<br>**1945**: mag, dd.<br>**1947–48**: dd.<br>**1960**: dd.<br>**1974–75**: sampling, mag, EM.<br>**1981**: mag, VLF EM.<br>**1983**: mag, VLF EM, geochem, IP, tr.<br>**1987–88**: dd. | 907,444 at 0.06 oz/t Au across 4.1 m, including 231,334 at 0.175 oz/t Au across 2.9 m ***1988***<br>(Que GM–17555, p 22, 1988) | |
| QUE. 215 | LAC PASCALIS<br>Parquet Res Inc<br>32 C/6<br>48°19′ 77°26′ | Qtz–tourmaline vein zones along the NE border of the Pascalis–Tiblemont batholith. | **1933**: disc.<br>**1947**: mag.<br>**1968**: dd.<br>**1984–88**: mag, VLF EM, IP, dd. | Prob: 136,000 at 0.20 oz/t Au ***1988***<br>(Nordic Gold Corp, 1989 AR) | |
| QUE. 216 | PERSHING MANITOU<br>Soc Minière Pershing–Manitou Ltée<br>32 C/6<br>48°22.3′ 77°27.1′ | Gold–bearing qtz–tourmaline veins with py, cp in a fracture zone in diorite. | **1937–38**: discovery, trenching, dip needle survey, dd.<br>**1941–46**: shaft to 210′ with 860′ advance on 2 levels, minor Au recovery from 75 t/d mill, dd.<br>**1962**: bulk sampling.<br>**1969**: geoph surveys, trenching.<br>**1973–78**: trenching, dd.<br>**1981, 1983–84**: dd.<br>**1985**: tr, sampling. | 50,000 at 0.23 oz/t Au ***1945 ?***<br>(FP Surv Ms 1950, p 302) | Work on the property in the 1970s concentrated on search of copper. |

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| QUE. 217 | TIBLEMONT CONS MINES<br>Dufresnoy, Soc d'Expln Min Inc<br>32 C/6<br>48°15.8' 77°17.8' | Native gold erratically distributed in several fracture zones in granodiorite and diorite, at the periphery of the Pascalis–Tiblemont batholith and in feldspar porphyry dykes. Minor minerals are cp, mo and a bismuth telluride. | **1933**: discovery.<br>**1934–39**: adit and 510' shaft with 4 levels and 4,000' lateral advance, bulk samples tested in pilot mill, dd.<br>**1956**: mag, SP surveys.<br>**1960**: minor dd.<br>**1982**: mag, EM, IP, dd by Soquem. | 250,000 at 0.09 oz/t Au available by open pit ***1939***<br>(Que SP–2, p 252, 1967) | Located on a large island in Tiblemont Lake, near Senneterre. |
| QUE. 218 | VALIANT (SMITH–TIBLEMONT)<br>Commander Res L<br>32 C/6<br>48°16.6' 77°15.3' | The Zulapa zone consists of massive and disseminated py, po, pn, cp segregated magmatically in the mafic basal section of a differentiated diorite pluton.<br>The Gold zone occurs as qtz veins in a sheared–fractured granodioritic phase of the same pluton. | **1933–36**: Au discovery, trenching, dd.<br>**1936**: 170' shaft with 500' advance on one level on Au prospect.<br>**1956–61**: mag, EM, SP surveys and dd on Au zone.<br>**1963–64, 1970, 1972–73**: mag, EM, Turam, IP surveys, dd on Zulapa zone.<br>**1979–80**: dd. | (i) ***Zulapa zone***: 1,687,000 dd–ind at 0.48% Cu, 0.55% Ni ***1964***<br>(CMH 1967–68, p 348)<br>(ii) ***Gold zone***: 135,000 at 0.193 oz/t Au ***1961 ?***<br>(NM 14/12/72)<br>***or*** 24,000 proven at 0.26 oz/t Au ***1973***<br>(Amberquest Res L, Prospectus 10/04/84) |  |
| QUE. 219 | ATLAS (DELANDORE)<br>Indigo Gold Ms Inc<br>32 C/11<br>48°38.1' 77°02.1' | Massive sulphide (55–60%) deposit of py, po, mag with qtz, chlorite, sericite in tuffs, agglomerates and sediments; probably of sedimentary origin. | **1937–38, 1945–46, 1959**: 18,500' dd.<br>**1964–66**: mag and Turam surveys and dd by Freeport Sulphur.<br>**1988**: mag, VLF EM. | 13,535,980 at 25.68% S, 37.27% Fe to 400' ***1946***<br>(NM 15/10/53) | The resource estimate is confined to a block of about 2,500' x 100' x 400'.<br>The deposit yielded some interesting gold assays. It was acquired in 1988 as a gold prospect; to be drilled 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 220 | VERMONT ZINC<br>(DIK DIK)<br>Ress William Inc &<br>Claude Res Inc<br>32 C/11<br>48°30.2′ 77°19.5′ | Volcanogenic, stratiform sulphide (py, sph) deposit in laminated tuffs, 400′ long, 7.3′ wide, 700′ deep. | **1933**: trenching.<br>**1936–37**: trenching, geoph survey, dd.<br>**1952**: dd.<br>**1976**: IP survey, dd.<br>**1988**: mag and VLF EM. | 213,000 at 3.41% Zn, 1.71 oz/t Ag ***1952***<br>(Que GM–3279, 1954) | More probing could be done along the same horizon for possible repetition of the mineralization. |
| QUE. 221 | BARTEC<br>Ontex Res L<br>32 C/12<br>48°30.9′ 77°35.9′ | Bartec zone occurs along 1,000′ of the Bartec fault which cuts obliquely across fragmental and massive lavas. The zones comprises a 3′–10′ width of schist containing irregular qtz and carb veinlets with py and mariposite. | **1940**: discovery, dd.<br>**1957–59**: mag, SP surveys, dd.<br>**1985**: geoph survey.<br>**1987**: dd. | 90,000 at 0.17 oz/t Au (before dilution) ***1987***<br>(Abcourt Ms Inc, 1987 AR) | Recent work has been done by Abcourt Ms Inc under option. |
| QUE. 222 | DUMONT (WENDELL)<br>Noranda Expln CL<br>32 C/12<br>48°30.9′ 77°35.9′ | Disseminated po, cp, pn (?) in a chimney–like deposit in a small gabbro plug, probably originating by magmatic segregation. | **1945–46**: mag survey, dd.<br>**1955**: dd.<br>**1957–58**: mag survey, dd. | 65,000 at 0.31% Ni, 0.68% Cu ***1959***<br>(Dumont Nickel Corp, 1959 prospectus) |  |
| QUE. 223 | DUVAY<br>Sphinx Mng C Inc<br>32 C/12<br>48°41′24″ 77°37′15″ | Gold in qtz stringers hosted by carbonatized volcanics. | **1944**: tr.<br>**1946–48**: shaft, one L, dd.<br>**1985**: mag, VLF EM.<br>**1986**: stripping, Tr, bulk sampling, dd.<br>**1988**: a 50–ton mill erected, test milling. | Poss: 1 million at 0.22 oz/t Au ***1986***<br>(Expln Sphinx Inc, 1986 AR) | Lab tests indicate 65% gold recovery by heap leaching.<br>An on–site facility to test 50,000 tonnes was to be constructed in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 224 | **FONTANA**<br>Bay Res & Services Inc<br>32 C/12<br>48°38.8′ 77°55.1′ | Gold in qtz veins and stringer zones cutting granodiorite. | **1934–37**: disc, tr.<br>**1937**: shaft to 300′ with short advances on 2 Ls.<br>**1939**: pitting, dd.<br>**1945**: EM survey, bulk and channel sampling, dd.<br>**1981**: bulk sampling.<br>**1986**: mag and VLF EM, bulk sampling, dd.<br>**1987–88**: processing of bulk samples, IP survey, dd. | Prob & poss, undil, in 5 veins: 968,155 at 0.165 oz/t Au ***1988***<br>(Stratmin Inc, 1988 AR) |  |
| QUE. 225 | **GOLDVUE**<br>St Geneviève Res L & Standard GML<br>32 C/12<br>48°40.3′ 77°53.6′ | Generally erratic Au values in qtz veins, perpendicular to longitudinal faults cutting a 1,000′ thick diorite sill. The vein walls are carbonatized. Considerable lengths of good tenor across drift widths were followed u/g. | **1935–39**: discovery, trenching, mag and EM surveys, bulk sampling, dd.<br>**1944–46**: dd.<br>**1946–53**: shaft to 1,275′ with 8 levels, 2,600′ lateral headings, u/g dd.<br>**1978–79**: EM, mag surveys.<br>**1980–82**: geoph, dd, shaft dewatered.<br>**1984**: dd.<br>**1986–88**: u/g dev, dd, bulk sampling. | 47,311 proven at 0.132 oz/t Au; 44,452 prob at 0.153 oz/t Au; 54,263 poss at 0.185 oz/t Au ***1987***<br>(St Geneviève Res L, 1988 AR) |  |
| QUE. 226 | **JACKSON**<br>Aur Res Inc<br>32 C/12<br>48°30.2′ 77°36.9′ | Gold occurs within sheared and carbonatized tuffs extending up to a major fault. | **1932**: disc, tr.<br>**1939**: dd.<br>**1946–47**: mag survey, dd, bulk sampling.<br>**1950–51**: dd.<br>**1959**: SP survey, dd.<br>**1974**: dd.<br>**1987**: Tr, sampling.<br>**1988**: dd. | Dd–ind: 53,000 at 0.11 oz/t Au to 530′ ***1988***<br>(Aur Res Inc, 1988 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 227 | MONPAS<br>Albarmont (1985) Inc<br>32 C/12<br>48°36.9' 77°52.2' | Massive pyrite lenses containing lesser cp, sph, gal. A volcanogenic deposit in chloritized tuff. Cp apparently remobilized into veinlets. The principal lens is 400'–600' long by 25' wide and 50' deep. | **1945–46**: trenching, mag survey, dd.<br>**1956**: dd.<br>**1982**: geoph, dd. | 50,000 at 2% Cu, 0.75% Zn, 0.60 oz/t Ag ***1956***<br>(Que Fiche: V–Duv–13, 1975) |  |
| QUE. 228 | SWANSON<br>Lac Mnrls L<br>32 C/12<br>48°33.2' 77°34.0' | A zone of green carbonates and schistose volcanics is cut by aplitic and granitic dykes. Genetic relationships with gold mineralization are still unclear. | **1939**: surface discovery.<br>**1941, 1947**: dd.<br>**1955**: mag, EM, resistivity, dd.<br>**1958**: mag, dd.<br>**1970**: 1 ddh.<br>**197?**: Soquem option: dd.<br>**1982**: 8 ddh.<br>**1983–86**: dd, 1,000–ton bulk sample tested.<br>**1987**: ramp advanced 1,663' with some drifting on both zones. | (i) ***North***: 342,000 poss at 0.11 oz/t Au<br>(ii) ***South***: 555,000 poss at 0.12 oz/t Au<br>***1985***<br>(Lac Mnrls L, 1985 AR) | Mineralization is open to depth. |
| QUE. 229 | TRINITY<br>Aunore Res Inc<br>32 C/12<br>48°42.5' 77°45.6' | Massive to disseminated sulphide (py, cp, sph) in 5 discontinuous lenses comprise a stratiform volcanogenic deposit in acidic agglomerate. | **1947**: discovery.<br>**1951–57**: trenching, mag survey, dd.<br>**1952–53**: shaft to 431' with 936' lateral advance on 3 levels.<br>**1987**: mag survey. | 147,000 at 1.18% Cu, 0.74% Zn plus Au–Ag ***1953***<br>(Que PR 443, p 25, 1961) |  |
| QUE. 230 | JOSSELIN–TONNANCOURT<br>Onitap Res Inc<br>32 C/15<br>48°51.8' 76°59.4' | Exhalative volcanogenic py, po, cp and sph in tuffs and graphitic argillite. | **1967**: discovery, mag and EM surveys.<br>**1968–73**: dd. | 60,000 at 2.07% Cu, 3.17% Zn, 0.73 oz/t Ag, 0.011 oz/t Au ***1973***<br>(Que GM–28766, 1973) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 231 | BLACK CLIFF<br>Black Cliff ML & Expln Essor Inc<br>32 D/1<br>48°09.8' 78°04.3' | Gold–qtz veins in shears and fractures in sills of diorite. Shoots vary from 2.5' to 11.5' in width, 50' to 525' in length and 100' to 600' in depth. | **1945–47**: dd, mag survey.<br>**1947–48**: shaft sunk 275' with minor lateral advance and dd on 2 levels<br>**1959–63, 1971, 1979–80**: dd.<br>**1980**: shaft dewatered, 500' lateral drives on 125' L.<br>**1982–84**: dd.<br>**1985–86**: mag, VLF EM, IP, dd.<br>**1987–88**: dd. | Dd–ind: 696,850 at 0.27 oz/t Au in 22 shoots to max 600' depth ***1963***<br>(NM 25/06/64)<br>*or* 144,081 at 0.24 oz/t Au (40% dil) ***1987***<br>(TSE LS 3582, Black Cliff ML, 1988) |  |
| QUE. 232 | BOUSCADILLAC (TERREX)<br>Breakwater Res L (51%)<br>Bond Gold Can Inc (49%)<br>32 D/1<br>48°13.9' 78°26.3' | Gold in narrow qtz veins in andesite with asp, py, po. Possibly volcano–exhalative sulphide deposits, remobilized. | **1924–25**: discovery, surface work.<br>**1926**: dd.<br>**1928–29, 1936–37**: shaft sunk 525' with 3,500' lateral headings on 4 levels, dd.<br>**1975**: sampling. | Poss: 39,930 at 0.22 oz/t Au ***1938***<br>(Novamin Inc, Prel Prospectus 16/12/86) |  |
| QUE. 233 | CANADIAN MALARTIC–BARNAT–EAST MALARTIC<br>Lac Mnrls L<br>32 D/1<br>48°08' 78°06' | Gold in qtz veins in porphyry and basic dykes within the Cadillac Break and subsidiary shears (e.g. Sladen) and in adjacent seds. | **1923**: disc.<br>**1935–81**: prod more than 5 million oz Au mainly from extensive u/g workings.<br>**1979–85**: more than 600 ddh indicated large low–grade tonnage available by o/p in several areas; more drilling since. | 10 900 000 mt at 1.7–2.1 g/t Au available by o/p (Que DV 85–02, p 48, 1985) | In a number of near surface deposits, mainly on the former Can Malartic property. Additional other u/g resources occur, especially on East Malartic property.<br>Small o/p production has been realized in recent years from several near– surface deposits. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 234 | CELTA (AUDET)<br>Abitibi Metal ML<br>32 D/1<br>48°11.2' 78°06.3' | Gold with sulphs in silicified and carbonatized shears within granitic stocks and adjacent volcs. | **1937–38**: tr, mag survey, dd.<br>**1945–46**: dd.<br>**1968**: mag survey, dd.<br>**1974–75**: dd, mag and EM.<br>**1985**: mag, VLF EM, IP, dd, bulk sampling.<br>**1986**: dd, bulk sampling.<br>**1987**: dd. | 350,000 at 0.06 oz/t Au (15% dil) to 250' ***1987***<br>(Que GM–17596, 1988) |  |
| QUE. 235 | CONSOLIDATED CENTRAL CADILLAC<br>32 D/1<br>48°14.0' 78°20.9' | Two types of gold orebodies occur in a 100' wide zone N of and adjacent to the Cadillac break:<br>(i) Qtz–tourmaline–py–scheelite–native gold veins in flat to low–dipping fractures through tuffs.<br>(ii) Gold associated with heavy py, in iron formation, probably of syngenetic, volcanic, origin.<br>The qtz–tourmaline orebodies are the more extensive but of lower grade and subject to more dilution during mining. | **1927–28**: trenching.<br>**1934–36**: dd, shaft sinking.<br>**1939–43, 1947–49**: prod 90,000 oz Au plus minor Ag and $WO_3$ from 641,000 t milled, extracted from u/g workings extending over 4,500' length and 1,000' depth of the zone, opened by 4 shafts.<br>**1964, 1968, 1973**: dd.<br>**1979**: geoph. |  | Separate adjoining properties, once consolidated and with interconnected u/g workings, each representing a one–mile gold–bearing segment along the Cadillac break. |
|  | a) CENTRAL CADILLAC<br>Kewagama GM (Que) L<br>48°14.0' 78°21.0' | West segment. | **1981–83**: new headframe erected, workings dewatered, dd. | 56,000 prob, 70,000 dd–ind and 272,000 inf, totalling 398,000 at 0.16 oz/t Au to max. 1,500' depth ***1974***<br>(H J Bergmann 1974, ***in*** Prospectus, Highland Star ML) | Ownership by Kewagama GM (Que) L was subject to litigation by vendor in 1988. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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|  | b) WOOD–CADILLAC<br>Gallant GML<br>48°14.0′ 78°20.9′ | East segment. | **1980–81**: dewatering, surface and u/g dd.<br>**1984–85**: dd.<br>**1987**: dd. | 554,000 prob and 444,000 poss, at 0.16 oz/t Au ***1984*** (VSE SMF 30/86, 24/02/86) | Under option by Belmoral ML which can earn 30% int. |
| QUE. 236 | EAST AMPHI<br>Breakwater Res L (51%)<br>Bond Gold Can Inc (49%)<br>32 D/1<br>48°08.7′ 78°09.2′ | Gold–bearing qtz veins in fractured diorite bodies intrusive into the talc–chlorite schist of the Cadillac break. | **1923**: initial discoveries.<br>**1937–45**: 46,000′ dd.<br>**1946–48**: shaft sunk 504′ with 6,258′ lateral headings on 2 levels, u/g dd.<br>**1958**: dd.<br>**1979–80**: dd.<br>**1983–85**: mag, VLF, IP.<br>**1986–89**: dd; workings dewatered 1988, u/g dd and sampling. | Mineral inventory: 585,500 at 0.25 oz/t Au ***1988*** (Breakwater Res L, 1988 AR) | The resource estimate was based on widely spaced surface holes. Later u/g dd suggested the mnrl'n is more discontinuous. |
| QUE. 237 | FOURAX<br>Bay Res & Services Inc & Augmitto Explns L<br>32 D/1<br>48°08.6′ 78°08.6′ | Gold occurs in porphyry and diorite, close to the contact with the Cadillac shear zone. | **c 1928**: first Au discovery.<br>**1974**: VLF EM and mag surveys.<br>**1975–76 and prior**: dd.<br>**1979–81, 84–88**: dd.<br>**1988–89**: ramp sunk on Western Porphyry zone, u/g dd. | ***(i) Western Porphyry***: 1,145,764 poss (undil) at 0.19 oz/t Au ***1987***<br>***(ii) Townsite Diorite***: 428,000 poss (undil) at 0.102 oz/t Au ***1980*** (St. Geneviève Res L, TSE LS 3624, 1988) | Located in and west of the town of Malartic. |
| QUE. 238 | GOLD HAWK<br>Intl Thunderwood Expls L<br>32 D/1<br>48°09.2′ 78°00.6′ | The main Gold Hawk zone occurs in a NW shear zone in diorite, north of and parallel to the Marban shear. Prior to u/g dev the main zone had been traced 700′ on strike and 1,175′ downdip. | **1980**: mag, VLF EM, dd.<br>**1981–82**: dd.<br>**1987–88**: dd.<br>**1988–89**: u/g dev extended into property from a drift in the Kierens mine. | 855′ x 5.1′ at 0.52 oz/t Au (muck) ***or*** 0.77 oz/t (chip sampling) in drifting on No 1 vein ***1988*** | In April 1989, some 3,622 at 0.195 oz/t Au was stockpiled on the surface for bulk sampling. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 239 | KEWAGAMA<br>Kewagama GM (Que) L & Breakwater Res L<br>32 D/1<br>48°14.0′ 78°22.6′ | Gold–bearing qtz veins in seds and volcs of the Piché Group, south of the Cadillac fault. | **1932**: dd, 140′ shaft, one L.<br>**1937–39**: shaft deepened and winze to c 700′ where a small gold shoot developed, dd.<br>**1940**: small ore shipments.<br>**1964, 73–74**: dd.<br>**1979**: dewatering u/g dd.<br>**1980–81**: shaft deepened to 1280′ dd.<br>**1982**: winze shoot mined: 9,015 at 0.36 oz/t Au.<br>**1988–89**: dd. | 15,546 prov & prob at 0.222 oz/t Au, 23,733 dd–ind at 0.156 oz/t, ***and*** 178,000 inf at 0.22 oz/t Au ***1988***<br>(Kewagama GM (Que) L, Prospectus 21/11/88) |  |
| QUE. 240 | LAPA CADILLAC<br>Breakwater Res L (51%) &<br>Bond Gold Can Inc (49%)<br>32 D/1<br>48°13.2′ 78°16.2′ | Au–bearing lenses, conformable to hosting biotite schists (basic tuffs), with qtz, py, po, asp. Deposit is now regarded as volcanogenic, partly remobilized. | **1934**: dd.<br>**1936–38**: shaft sunk 706′ with 4 levels, u/g dev and dd.<br>**1938–43**: prod 47,000 oz Au from 383,000 t milled. | 28,000 at 0.19 oz/t Au in No. 23 orebody (arsenical) ***1943***<br>(Lapa Cadillac GML, 1943 AR) | Relatively poor gold recovery was attained because roaster was not used to extract the fraction tied up with arsenopyrite. |
| QUE. 241 | MALROBIC<br>JAG ML<br>32 D/1<br>48°12.3′ 78°10.2′ | Gold–bearing qtz veins in strike–shears in a carbonatized schist. | **1928**: shaft to 260′, 2 Ls.<br>**1934**: u/g dd.<br>**1986–87**: mag survey, dd. | Poss: 153 000 mt at 4.3 g/t Au ***1987***<br>(CMH 1989–90, p 317) |  |
| QUE. 242 | NORMAN LAKE<br>Breakwater Res L (51%) &<br>Bond Gold Can Inc (49%)<br>32 D/1<br>48°14.0′ 78°29.7′ | Gold in biotite schist enclosed by talc–chlorite schists of the Cadillac fault zone. Au is apparently not related to qtz veins. | **1932–33**: trenching.<br>**1939–40**: discovery by dd.<br>**1946, 66, 78, 88**: dd. | Poss: 368,300 at 0.13 oz/t Au (uncut & undil) ***1978***<br>(Novamin Inc, Prospectus 16/12/86)<br>***or*** dd–ind: 135 054 mt at 6.7 g/t Au (cut) across 1.95 m ***1988***<br>(RV Zalnieriunas, pers commun to A G Sozanski 09/89) | Talcose wallrocks could pose mining problems. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 243 | O'BRIEN (DARIUS)<br>Breakwater Res L<br>32 D/1<br>48°14.0′ 78°23.8′ | Au in tabular qtz veins with asp and py in volcanics and sediments, adjacent to the Cadillac fault. | **1924**: discovery.<br>**1924–49**: shafts sunk to 3,450′.<br>**1933–57**; prod 1.2 mil tons at 0.456 oz/t Au.<br>**1978–81**: prod 140,000 at 0.10 oz/t Au.<br>**1987–89**: dd. | ***(i) 36E zone***: 275,290 at 0.24 oz/t Au (cut) ***1988***<br>***(ii) Other zones***: 279,000 at 0.17 oz/t Au to 1500′ ***c 1983***<br>(GCNL 11/04/89)<br>***or (ii)***: 160,000 proven and prob at 0.185 oz/t Au ***and*** 301,600 poss at 0.178 oz/t Au to 3,450′<br>(Novamin Inc, Prospectus 16/12/86) | A 300–ton per day concentrator is on the property. |
| QUE. 244 | PANDORA<br>American Barrick Res Corp<br>32 D/1<br>48°14.0′ 78°19.8′ | Apparently similar to that at Cons Central Cadillac (see), on the east extension of which Pandora No 3 occurs. The low–dipping qtz veins predominate at Pandora No 3. | **1936–37**: dd.<br>**1937–39**: shaft sunk 400′ with 4,000′ lateral advance on two levels and u/g dd.<br>**1940–42**: prod 196,000 at 0.15 oz/t.<br>**1945–46**: surface dd, shaft deepened to 852′ with 568′ lateral headings on 2 new levels, u/g dd.<br>**1974**: surface dd.<br>**1979**: mag, VLF and geo-chem surveys.<br>**1980–82**: dd, expln from No. 3 shaft.<br>**1987–89**: dd. | Dd–ind geol res: 2,330,000 at 0.13 oz/t Au above 750′ in 3 zones ***1988***<br>(Amer Barrick Res Corp, 1988 AR) | The estimated resource underlies a 4,000′ strike length between shafts Nos. 2 and 3, north of the Cadillac fault. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 245 | PARBEC<br>St. Geneviève Res L<br>32 D/1<br>48°09.7' 78°10.9' | Three gold bearing zones occur as quartz veins in diorite and porphyry intrusives within the Cadillac shear zone. | **1934**: dd.<br>**1936–38**: geoph, dd.<br>**1941, 1944–45**: dd.<br>**1946**: 50' shaft.<br>**1955–56**: mag, dd.<br>**1972**: dd.<br>**1981**: geoph, dd.<br>**1983**: geochem, mag.<br>**1985–88**: dd, mag, IP.<br>**1988**: ramp extended 1,800', u/g dd. | Poss: 455,000 at 0.135 oz/t Au across 6.1' to 500' in 6 zones **1988**<br>(VSE LS 3624, 1988, St. Geneviève Res L) |  |
| QUE. 246 | RAND MALARTIC<br>NSR Res Inc &<br>Nova–Cogesco Res Inc<br>32 D/1<br>48°07.6' 78°04.4' | Au in qtz–tourmaline veins in aplitic and other felsic units in and near the Cadillac shear. | **1936**: first Au discovery.<br>**1937–39, 1941**: dd, '38' zone discovered 1938 and '67' in 1939.<br>**1945, 1958, 1962, 1974–75, 1980**: dd.<br>**1981**: ramp to '38' zone, drifting u/g dd.<br>**1985–89**: u/g dev, bulk sampling, dd. | 66,700 prob & poss at 0.363 oz/t Au (cut), mainly from '67' zone, ***and*** 95,700 mineral inventory at 0.111 oz/t Au (cut) from other zones ***1986***<br>(NSR Res Inc, 1986 AR) | In 1988, Belmoral ML optioned a 50% int in the property.<br>By early 1989 a bulk sample of 26,823 at 0.147 oz/t Au was test milled at Belmoral with a 89.5% recovery. |
| QUE. 247 | TONAWANDA<br>Breakwater Res L (51%)<br>Bond Gold Can Inc (49%)<br>32 D/1<br>48°13.6' 78°17.3' | Au assoc with asp in a moderately silicified biotite schist within the Cadillac fault zone. | **1928–29**: disc, tr.<br>**1933**: dd.<br>**1936**: prospect shaft, dd.<br>**1955**: dd.<br>**1973–74, 80**: geoph and geochem.<br>**1986**: mag, VLF EM, IP.<br>**1986–88**: dd.<br>**1988**: ramp driven 1,200' along strike, u/g dd. | Mineral inventory (ramp): 332,000 at 0.21 oz/t Au to 591' ***1988***<br>(Breakwater Res L, 1988 AR)<br>***or*** mineral inventory (surf dd): 1,071,300 at 0.153 oz/t Au to 1,000' ***1987***<br>(Breakwater Res L, 1987 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 248 | WEST MALARTIC<br>Breakwater Res Inc & Bond Gold Can Inc<br>32 D/1<br>48°13.6' 78°17.3' | In No 1 area, gold–bearing pods containing py and minor asp, po occur within the talc–chlorite schist of the Cadillac break.<br>In No 2 area, located NE of the break, gold occurs in sparsely mineralized veins cutting volcanics and conglomerate. | **1935**: discovery, dd No 1 area.<br>**1936**: discovery, dd No 2 area, shaft sunk 308', small prod from 2 levels.<br>**1940–41**: No 2 workings resampled, dd.<br>**1939–45**: shaft sunk on No 1 to 1,231' with 9 levels.<br>**1942–46**: prod 36,000 oz Au from 308,000 milled from No 1.<br>**1945–46**: dd on No 2.<br>**1947–50**: surface and u/g dd with 2,000' lateral advance on 275' level of No 2. | ***(i) A vein extension***: 20' x 2.38' at 1.60 oz/t Au, ***and*** 78.5' x 1.69' at 0.18 oz/t Au<br>***(ii) South mineral zone***: 67' x 3.32' at 0.322 (0.248 cut) oz/t Au ***1948***<br>(F H Elliott 31/05/48, letter to directors of Angus ML)<br>***or (ii)***: 17,880 poss at 0.32 oz/t Au (uncut) across 2.6'<br>(Novamin Inc, Prospectus 16/12/86) | The values were indicated by channel sampling in 175' level drift, NW of No 2 shaft (No 2 area) |
| QUE. 249 | CALDER–BOUSQUET<br>Lac Mnrls Inc<br>32 D/2<br>48°13.8' 78°35.3' | No 4 gold–bearing zone occurs in greywacke just S of the Cadillac break as qtz–carb stringers in a length of 1,400' and width of 12.5'. Many of the Au occurrences in the area are now thought to be of volcano–exhalative origin, subsequently remobilized. | **1932–34**: discovery, surface work, dd.<br>**1936**: shaft sunk on No 2 zone, short advances on 2 levels.<br>**1938–50**: dd on 5 zones.<br>**1955–57**: dd.<br>**1969**: EM<br>**1977–79**: stripping, dd. | Dd–ind: 172,000 at 0.17 oz/t Au to 250' in No 4 zone ***c 1950***<br>(St Lawrence River ML, AR 29/02/60) |  |
| QUE. 250 | DOVERCLIFF (CLERNO)<br>McAdam Res Inc<br>32 D/2<br>48°12.7' 78°56.1' | Gold is associated with narrow qtz veining and silicification in the vicinity of Bouzan–Cadillac fault. | **1923**: staking and original Au discoveries.<br>**1928**: shaft sunk 132' with 140' crosscuts on 100' level.<br>**1932–33**: pits sunk, dd.<br>**1939, 1944–46**: dd.<br>**1979–81**: reassessment, minor dd.<br>**1985**: 7 ddh by Yorbeau Res Inc. | Poss: 475,000 at 0.13 oz/t Au ***1979***<br>(J D MacCannell 12/09/79 rept to Dovercliff Mnrls L)<br>***or*** dd–ind & poss: 244,550 at 0.110 oz/t Au (at 15% dil) to 100' ***1988***<br>(Quinteko Res L, Release 31/03/88) | Location is just SW of the former McWatters mine. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 251 | HÉVA MINE<br>Eastern ML &<br>Silver Sceptre Res L<br>32 D/2<br>48°13.4′ 78°46.9′ | Shoots of gold-bearing material occur as networks of qtz veins in and along the footwall of the Cadillac break and along a subsidiary shear in FW greywacke. | **1944–45**: dd.<br>**1946–48**: shaft sunk 697′ with 2,600′ advance on the first 2 of 3 levels.<br>**1949**: dd.<br>**1951–52**: prod 8,000 oz Au, 6,500 oz Ag from 39,000 tons shipped.<br>**1975**: mag survey.<br>**1980**: dd.<br>**1986–87**: dd.<br>**1987–89**: workings dewatered, a new shaft to 227 m, drifting. | Proven–prob–poss: 443 155 mt at 6.36 g/t Au, ***and*** inf extensions: 176 345 mt at 4.91 g/t Au ***1987***<br>(Eastern ML, VSE FS 123/88) |  |
| QUE. 252 | HOSCO<br>Eastern ML &<br>Silver Sceptre Res L<br>32 D/2<br>48°13.5′ 78°44.0′ | Gold with asp, py, cp in silicified greywacke in the FW of the Cadillac fault. The zone is 100′–350′ wide. Mineralization was traced for 1,500′ length. Another zone to the south and a third to the north, across the fault, could combine for a low-grade o/p operation. | **1944–45**: dd, discovery.<br>**1946**: inclined shaft sunk 531′ with 2 L's.<br>**1948–49**: shipped 50,567 ore.<br>**1975**: mag survey.<br>**1982**: dd.<br>**1985–87**: dd.<br>**1986–87**: ramp decline advanced 484 m with 556 m lateral headings. | Proven–prob–poss: 1 221 200 mt at 4.00 g/t Au ***and*** inf extension: 296 000 mt at 3.41 g/t Au ***1987***<br>(Eastern ML, VSE FS 123/88) | Tests by CANMET in 1987 on arsenical ore gave 92% recovery after removal of As from flotation conc by pressure oxidation. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 253 | McWATTERS<br>McAdam Res Inc<br>32 D/2<br>48°12.7' 78°54.4' | Gold in qtz veins with py, tourmaline, ankerite, scheelite and green mica in conformable and cross-cutting zones in conglomerate. Recently suggested origin of gold is by volcanic exhalation into carbonate and sulphide facies of iron formation, with subsequent remobilization. | **1932–33**: discovery, trenching, dd.<br>**1933**: shaft sunk.<br>**1934–44**: milled 360,000 at 0.33 oz/t Au from u/g workings extending to 1,500' level and explored down to 2,200'.<br>**1950**: dd.<br>**1973–74**: re-evaluation, minor dd.<br>**1981–82**: dd.<br>**1986—88**: dd.<br>**1987–88**: expln u/g, incl the new JKL zones. | Proven & prob: 548,061 at 0.180 oz/t Au ***and*** 362,808 poss at 0.28 oz/t Au ***1987***<br>(Info–Explo 8/02/88) |  |
| QUE. 254 | O'NEILL–THOMPSON<br>Cambior Inc<br>32 D/2<br>48°13.1' 78°51.2' | Three parallel shear zones, 6' wide, contain qtz–ankerite veins with py, on either side of a sinuous diorite–andesite contact. | **1932**: discovery.<br>**1932–71**: intermittent work; dd, 175' shaft with small prod in 1936, mag and EM.<br>**1982**: dd. | Poss: 38,500 at 0.20 oz/t Au to 300' in 3 lenses ***1959***<br>(Que PR 443, p 36, 1961) | Prob part of Canaco option (see below). |
| QUE. 255 | ROUYN MERGER<br>Cambior Inc<br>32 D/2<br>48°12.9' 78°52.4' | Gold in qtz–ankerite stringers with cp, py at a conglomerate–tuff contact. A syngenetic origin has been proposed whereby gold was deposited in carbonate and sulphide facies of iron formation by volcanic exhalation, with subsequent remobilization. | **1933, 1983–39, 1944**: dd.<br>**1945–48**: shaft sunk on incline 1,121' with 6 levels.<br>**1948–49**: prod 3,900 oz Au from 32,000 t shipped.<br>**1950, 1964, 1972–73**: minor dd.<br>**1959, 1973**: mag, EM, SP surveys.<br>**1979–80**: dd.<br>**1988**: dd. | Prob: 317,074 at 0.193 oz/t Au, poss: 151,947 at 0.166 oz/t, pot: 204,600 at 0.184 oz/t (1,300'–1,690') ***and*** 330,600 at 0.184 oz/t Au (above 1,300') ***1984***<br>(VSE SMF 04/85, New Goldcore Ventures L) | Mining (1948–49) was subject to heavy dilution.<br>Canaco Mng Res L has optioned a 45% int in the property in 1988. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 256 | ALDERMAC<br>Deak Res Corp<br>32 D/3<br>48°13.2'  79°14.0' | Three large lenses of massive py, po, cp, sph in acidic pyroclastics were mined. These deposits are considered to be volcano–exhalative. | **1925–26**: discovery, dd.<br>**1926–30**: shaft sunk 1,147' with 6 levels, u/g dev.<br>**1932–33**: mill erected, trial runs.<br>**1933–34**: u/g dev resumed, stopped after fire destroyed the surface plant.<br>**1936**: u/g dev resumed.<br>**1937–43**: prod 2,000,000 at 1.65% Cu; recovered Cu, Ag, Au, py.<br>**1947–54, 1959–61**: dd.<br>**1976–77**: geoph, dd.<br>**1981–82**: dd.<br>**1986–88**: dd. | Proven & prob: 1,110,500 at 4.12% Zn, 1.54% Cu, 0.91 oz/t Ag, 0.014 oz/t Au; poss: 46,900 at 2.83% Zn, 1.54% Cu, 0.48 oz/t Ag, 0.004 oz/t Au ***1988***<br>(CMH 1989–90, p 142) | The old tailings are said to consist of 1,600,000 tons averaging 1.5% Zn, 0.3% Cu, 0.2% Co, 10.0 g/t Ag and 0.3 g/t Au. According to a 1988 report by Recbiomine inc, they can be treated by a vat leach process to yield $50.00/ ton at a cost of $16.34/ ton. |
| QUE. 257 | ARNTFIELD MINE<br>Noranda Expln CL &<br>Nova–Cogesco Res Inc<br>32 D/3<br>48°12.2'  79°15.6' | Gold occurs with fine–grained qtz and py in the Francoeur and Arntfield shears and related shears. | **1923**: discovery.<br>**1925–26**: dd.<br>**1929–30**: No 1 shaft sunk to 250'.<br>**1932–33, 1941**: No 2 shaft sunk 1,075' and No 3 at 975'.<br>**1935–42**: milled 529,480 to recover 55,662 oz Au, 14,585 oz Ag.<br>**1944–46**: surf and u/g dd; mine deepened to 1,275', and drifting.<br>**1986–89**: dd. | ***(i) No. 5 zone***: 837,686 at 0.12 oz/t (20% dil) in 3 lenses ***1988***<br>(Nova–Cogesco Res Inc, 1988 AR)<br>***(ii) No 4 zone***: 120,000 geol res at 0.175 oz/t Au ***1987***<br>(Nova–Cogesco Res Inc, 1987 AR) | Dd testing of the downdip extension of Francoeur mine's No. 3 zone was planned for 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 258 | **ASTORIA**<br>Yorbeau Res Inc<br>32 D/3<br>48°11.6’ 79°02.2’ | Two principal carbonatized horizons, separated by a horizon of talc schist, contain lenses carrying small gold–bearing veins. These rocks form a part of the Cadillac break. | **1931**: 58’ shaft sunk.<br>**1933–34**: dd.<br>**1935–37**: main shaft sunk 430’, lateral advance on 125’ and 406’ levels.<br>**1943–46**: dd, u/g dev resumed on 406’ level.<br>**1979–81**: geoph, dd.<br>**1983–85**: surface dd.<br>**1986–89**: u/g dev, dd, shaft deepening and bulk sampling. | 177,668 proven at 0.148 oz/t Au, 445,299 prob at 0.179 oz/t Au, 778,625 poss at 0.186 oz/t Au, for a total 1,401,592 at 0.179 oz/t Au (dil) ***1988***<br>(Yorbeau Res Inc, 1988 AR) | Belmoral ML optioned 50% int in the property in 1988 and has conducted dev work since.<br>Prod could start in mid–1990 if a feasibility study is positive. |
| QUE. 259 | **BAZOOKA**<br>Ress Min Forbex Inc<br>32 D/3<br>48°11.8’ 79°06.4’ | Gold in qtz veinlets within carb–talc–chlorite schist (altered greywacke) of the Cadillac break. Two ore-shoots, 130’ and 60’ long, were delineated on 372’ level. | **1944–46**: dd, discovery.<br>**1951–52**: shaft sunk 409’ with 2,081’ advance on 372’ level, u/g dd.<br>**1980–81**: dd. | 100 T/VF at 0.27 oz/t Au in two shoots on 372’ level ***1952***<br>(Que PR 374, p 4, 1958) |  |
| QUE. 260 | **BEAUDRY (NORZONE)**<br>Noranda Inc<br>32 D/3<br>48°07’37” 79°10’40” | Discontinuous lenses and pockets of sph, gal, cp, py in a zone extending 500’ down a 60° rake, 300’ long and 8’ wide, within a zone of silicification, 100’–150’ thick, which cuts across Pontiac metasediments. | **Pre–1938**: discovery.<br>**1942**: dd.<br>**1946–49**: shaft sunk, minor advance on 4 levels.<br>**1951–52**: u/g dev, shipped 7,426 tons ore.<br>**1974–78**: quarrying of qtz for silica flux S of shaft. | 87,700 at 8.5% Zn, 0.74% Pb, 0.24 oz/t Ag to 620’ ***1948***<br>(Que PR 256, p 51, 1951) | 1951–52: u/g work found ore shoots discontinuous and mining subject to heavy dilution. Noranda quarried for flux a barren portion of the vein between 1974 and 1978 and intermittently since. |
| QUE. 261 | **BLACK BAY**<br>C Chouinard<br>32 D/3<br>48°03.9’ 79°11.3’ | Two main discontinuous qtz veins up to 2’ thick and associated veinlets, irregularly mineralized with cp, in a zone 20’ wide. In Pontiac Group schists. | **1962–63**: discovery, trenching, mag and IP surveys, dd. | Dd–ind: 200’ x 3.5’ to 100’ at 2.60% Cu ***1963***<br>(Que PR 565, p 50, 1967)<br>***or*** dd–ind: 310’ x 4’ to 250’ at 3.53% Cu ***1963***<br>(T Koulomzine 20/07/63, rept to Black Bay Uranium L) | Koulomzine’s estimate is reportedly based on 17 ddh intersections. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 262 | **DURBAR**<br>Augmitto Expls L<br>32 D/3<br>48°11.8' 79°05.5' | North vein is a qtz vein up to 8' wide, traced 550' in rhyolite.<br>South zone occurs in the Cadillac fault zone, esp in two carbonate horizons which carry erratic Au values. | **1924–25**: trenching, dd on North vein.<br>**1932–34**: dd, shaft and 450' advance on one level on North vein.<br>**1936, 1943–45, 1958, 1968, 1973–74**: dd on North and South zones.<br>**1979–80**: stripping, churn dd, stockpiling broken rock from pit in South zone.<br>**1983–89**: dd, u/g expln via ramp and shaft, bulk sampling. | ***(i) North (Patrick) vein***: 226 800 mt at 6.86 g/t ***1987***<br>(Que DV 88–01, p 16, 1988)<br>***(ii) South zone***: 1,947,000 at 0.17 oz/t Au (15% dil) plus 800,000 inf at 0.184 oz/t Au (undil) ***1988***<br>(Augmitto Expls L, 1988 AR) | In 1989, Carlton Management undertook to complete the construction of a mill on the property in return for an interest in the venture. |
| QUE. 263 | **GRANADA**<br>Kewagama GM (Que) L<br>32 D/3<br>48°10'45" 79°01'40" | Au–qtz veins, associated with syenite porphyry intrusions, occur conform-ably in Pontiac conglomerate and in bodies of the porphyry. | **1923–24**: discovery, trenching.<br>**1927–35**: two shafts sunk with 26,000' lateral advances on 13 levels.<br>**1930–35**: prod 51,000 oz Au and 8,000 oz Ag from 180,000 tons milled.<br>**1947**: dd.<br>**1950, 1968**: geoph surveys, dd.<br>**1975**: mag–EM surveys.<br>**1982–84**: dewatered u/g sampling.<br>**1988**: u/g dd.<br>**1989**: u/g expl. | ***(i) Mine***: 134,478 poss at 0.283 oz/t Au ***and*** 196,846 poss (elsewhere) at 0.289 oz/t Au ***1989***<br>(Finance 12/06/89)<br>***(ii) Tailings***: 75,000 at 0.08 oz/t Au or 100,000 at 0.06 oz/t Au ***1982***<br>(NM 21/10/82) |  |
| QUE. 264 | **LAKE FORTUNE**<br>Rouyn Mng Res Inc<br>32 D/3<br>48°11.4' 79°17.8' | At least three subparallel carbonatized lenses, containing gold–bearing qtz lenses, occur in what may be the Larder Lake–Cadillac fault zone. | **1910–28**: 3 shafts, dd.<br>**1984–86**: decline ramp, dd.<br>**1984–89**: ramp sunk to 365' with 1,650' lateral dev on 3 Ls, dd. | 258,000 at 0.157 oz/t Au<br>(CMH 1989–90, p 402)<br>***or*** 284,347 at 0.164 oz/t Au in 3 zones above 200'<br>(NM 16/05/85) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 265 | MACWIN (WINGAIT)<br>Lac Mnrls L<br>32 D/3<br>48°12.9' 79°10.5' | Two gold–bearing horizons: one is in HW sheared and silicified rhyolite with py, the other within the underlying Wasa shear in a silicified and carbonatized zone, resembling those of the adjacent Wasa Lake mine. | **1944–47**: 28,000' dd, shaft abandoned at 34'.<br>**1974**: 6 ddh. | Dd–ind: 193,900 at 0.18 oz/t Au in 2 zones to 450' ***1947***<br>(NM 24/06/47) | After undisclosed but disappointing results of drilling in 1974, the sinking of a planned 400' decline was deferred indefinitely. |
| QUE. 266 | O'LEARY MALARTIC<br>Rouyn Mng Res Inc<br>32 D/3<br>48°10.0' 79°18.8' | A zone of qtz containing cp and some bornite, up to 5' wide, in biotite paragneiss at the contact with a diabase dyke. | **1956**: dd. | 30,000 at 1.25% Cu ***1956***<br>(Que GM–5317, 1956) |  |
| QUE. 267 | PELLETIER LAKE<br>Falconbridge L<br>32 D/3<br>48°12.6' 79°03' | The main gold–bearing structures, collectively known as the C–D–P shear zone, consists of three E–W silicified and carbonatized shears, with dips of 90°, 45°N and 25°S, respectively. | **1922**: first disc.<br>**1937**: dd.<br>**1939**: drift extended into property on 600'L of Stadacona mine, u/g dd.<br>**1957, 61, 69, 71, 74–75**: dd, VLF EM, mag, IP.<br>**1988–89**: dd. | 973,000 at 0.20 oz/t Au (incl 540,000 at 0.29 oz) ***1988***<br>(GCNL 11/01/89)) | Recent dd has been financed by Intl Thunderwood Explns L which has earned a 35% int in the property. |
| QUE. 268 | R M NICKEL<br>Minnova Inc (50%)<br>32 D/3<br>48°15' 79°17' | Disseminated po, pn, originating by magmatic segregation at the base of a diorite dyke in a zone 34' thick. | **1947–48, 1950**: geoph surveys, dd.<br>**1956**: SP survey, dd.<br>**1957–59**: dd.<br>**1970**: re–evaluation.<br>**1974**: EM, mag and IP surveys.<br>**1982**: re–evaluation.<br>**1986–87**: dd. | O/p mineable: 145,000 at 0.79% Cu, 0.46% Ni with Pt–Pd values ***1987***<br>(Equinox Res L, release 17/05/88)<br>***or*** proven (o/p): 7,180 at 2.34% Ni, 2.19% Cu, 0.046 oz/t Pt, 0.135 oz/t Pd ***1988***<br>(Technigen Corp, VSE FS 38/89) | The deposit averages about 2 oz/t Ag.<br>Technigen Corp has earned a 30% int in the property and Equinox Res L 20%.<br>Mining for PGE was found to be not feasible in 1988. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 269 | **SENATOR**<br>NSR Res Inc<br>32 D/3<br>48°13.9' 79°03.5' | Au–qtz veins in a carbonatized ore zone up to 600' long and 75' wide, in diorite. Accessory minerals include chrome mica, tourmaline, py. | **1936–37**: discovery, dd.<br>**1939**: shaft sunk.<br>**1940–55**: prod 1,800,000 at 0.13 oz/t Au from mine with 20 levels, down to 2,775'.<br>**1981**: re–evaluation.<br>**1986–87**: dd. | c 200,000 proven at 0.13 oz/t Au above 2,775'L (NSR Res Inc, 1988 AR) | Alotta Res L held the property under a 75% int option in 1988.<br>The resource figure is based on compilation of old mine data on the main zone.<br>Previous dd and u/g dev suggests good potential for gold in two zones flanking the main zone. |
| QUE. 270 | **STADACONA EAST**<br>Cambior Inc &<br>Ress Min Forbex inc<br>32 D/3<br>48°12.9' 79°01.9' | Gold is associated with a sheared and chloritized gabbro dyke cutting an intermediate pyroclastic breccia. | **1928–35**: discovery, shaft sunk west of property.<br>**1936–58**: Stadacona mine prod, mostly outside this property, except for some stoping in the East zone.<br>**1986**: geoph and dd.<br>**1987–89**: dd. | 550,000 at 0.17 oz/t Au (20% dil), avg 8.5' width, above 1,300' ***1988***<br>(Cambior Inc, 1988 AR) | Cambior optioned its 50% int in the property from Forbex in 1987. |
| QUE. 271 | **VALRAY (CRANGOLD)**<br>Ress Kimex inc<br>32 D/3<br>48°09.4' 79°17.3' | Irregular and discontinuous qtz veins in meta–greywacke carrying variable amounts of chalcopyrite. | **1929–31**: discovery, trenching, minor dd.<br>**1941**: dd on No 2.<br>**1945**: dd.<br>**1951–52**: mag and SP surveys, channel sampling, dd of Nos 1 and 2.<br>**1957**: dd mainly on No 1.<br>**1962**: IP survey.<br>**1970–71**: EM survey, dd mainly on No 2.<br>**1981**: VLF survey. | ***(i) No 1 vein***: 24,000 at 3.85% Cu ***1957***<br>***(ii) No 2 vein***: 60,000 at 1.5% Cu ***1970***<br>(NM 01/07/71) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 272 | WASA LAKE (WASAMAC NO 1)<br>Lac Mnrls L & Rouyn Mng Res Inc<br>32 D/3<br>48°12.7' 79°12.0' | The Wasa shear zone of carbonate–talc–chlorite–amphibolite alteration of volcanics contains zones of gold–bearing qtz stockworks with py and cp. The largest, West zone, was 1,200' long by 30'–50' wide and contained lenses of mineralization of about 750' by 20'. | **1936–38**: dd, shaft sunk 220' with 1,300' drives on 2 levels.<br>**1944**: dd.<br>**1945–50**: main shaft sunk on incline 1,263' with u/g dev and dd on 5 levels.<br>**1951**: shipped 10,000 t from stockpile.<br>**1964**: built 1,500 t/d mill, rehabilitated u/g workings.<br>**1965–71**: prod 2,080,000 t at 0.125 oz/t Au.<br>**1980–81**: geoph surveys, dd.<br>**1983**: dd.<br>**1986–87**: dd.<br>**1987–88**: workings de-watered and rehabilitated. | 1,726,715 prob at 0.135 oz/t Au, 165,942 dd–ind at 0.165 oz/t Au, 46,806 poss at 0.157 oz/t Au (Rouyn Mng Res Inc, release 10/87)<br>*or* 946,185 prob at 0.149 oz/t Au plus 816,313 in crown pillar at 0.099 oz/t Au<br>(NM 15/06/87) |  |
| QUE. 273 | WRIGHT–ROUYN<br>Yorbeau Res Inc<br>32 D/3<br>48°12.6' 79°02.3' | Probably similar to Stadacona: qtz–carbonate veins along faults in acidic pyroclastics. | **1924**: stripping, trenching.<br>**1931**: dd.<br>**1939**: Stadacona mine's 600' level drift advanced 810' into property, dd.<br>**1946**: dd from 600' level.<br>**1983**: re–evaluation.<br>**1984**: dd.<br>**1986**: mag, EM. | 150,000 at 0.2 oz/t Au below 600' ***1946***<br>(FP Surv Ms 1948, p 285)<br>*or* 20,935 dd–ind at 0.21 oz/t Au in veins 2 & 3 ***1984***<br>(Yorbeau Res Inc 1984 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 274 | BORDULAC (RUSSIAN KID)<br>Dassen Gold Res L<br>32 D/4<br>48°14.8′ 79°30.4′ | Gold with py in qtz–carbonate veins in a shear and breccia zone within a body of qtz diorite. Substantial amounts of scheelite occur in parts of the veins. | **1924–25**: discovery, pits.<br>**1933–35**: trenching, sampling, dd.<br>**1945–47**: dd.<br>**1948**: shaft sunk 150′ with 1,010′ lateral advance, u/g dd.<br>**1948–49**: dd.<br>**1951–52**: shaft deepened to 320′ with 1,620′ lateral headings on 300′ level.<br>**1956–57**: EM survey.<br>**1961–63, 1967**: dd.<br>**1972**: workings dewatered and resampled.<br>**1973**: decline advanced 460′, dd.<br>**1980**: decline extended to meet shaft workings.<br>**1981–82**: small ore shipments; u/g workings extended, then flooded.<br>**1983–84**: surf and u/g dd and u/g dev, feasibility study.<br>**1985**: dd. | 1 184 000 mt at 6.22 g/t Au open laterally and below 457 m ***1984*** (Que DV 85–02, p 12, 1985) | A surface stockpile of 10,000 at 0.17 oz/t Au was held in 1984. |
| QUE. 275 | BEAUCHASTEL COPPER (DESPINA)<br>Noranda Inc (60%)<br>Beauchastel Copper ML (40%)<br>32 D/6<br>48°17.3′ 79°05.1′ | NE to E trending qtz veins in andesite. The veins and wall-rock generally contain up to 25% py and cp. Vein No 5 was explored over 200′ by 4.8′ to 450′ deep, vein No 8 over 600′ by 3.3′ to 700′ deep. | **1926–56**: trenching and upwards of 70,000′ dd.<br>**1968**: minor dd.<br>**1975–81**: deep dd, under option by Noranda.<br>**1985–86**: deep dd. | 134,300 at 1.78% Cu in veins Nos 5, 6 and 8 ***1956*** (Que Fiche: R–BC–16, 1969) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 276 | DON ROUYN<br>Noranda Inc<br>32 D/6<br>48°15.1' 79°04.0' | Silica rich phase of the Powell granite stock, con-taining some cp and moly. | **1925–29**: rock cuts, trenches, 100' shaft, dd.<br>**1957–80**: prod 5 640 000 mt siliceous flux ore for the Noranda smelter. | 36 000 000 mt at 0.15% Cu, 75% $SiO_2$ (DV 85–08, 1985) | |
| QUE. 277 | DUQUESNE<br>Radisson Mng Res Corp<br>32 D/6<br>48°28.04' 79°02.1' | Gold and minor silver in qtz–carb veins in and near a breccia zone within a steeply plunging lens of qtz–feldspar porphyry. | **1923–25**: trenching.<br>**1933**: dd.<br>**1934**: mine discovery, dd.<br>**1936–39**: dd.<br>**1941–42, 1945–51**: shaft sunk 1,250' with 9 levels.<br>**1947, 1949–50, 1952**: shipped 90,000 at 0.36 oz/t Au.<br>**1965**: minor dd.<br>**1987–89**: mine dewatered, surf & u/g dd. | 565,330 prob at 0.26 oz/t Au and 182,935 poss at 0.21 oz/t Au (15% dil, uncut) ***1988***<br>(Radisson Mng Res Inc, 1988 AR) | Funding was being negotiated in 1989 to bring the mine back to production.<br>A bulk sample could be mined by the end of 1989. |
| QUE. 278 | ELDER<br>Aunore Res Inc (65%), Nova Beaucage ML (35%)<br>32 D/6<br>48°16.8' 79°07.7' | Gold in qtz veins cutting Flavrian granite batholith along its SE margin. | **1933**: discovery, dd.<br>**1934–35, 1937**: dd.<br>**1944–46**: dd, sinking of #1 shaft.<br>**1944–65**: shipped 2,326,000 flux ore at 0.156 oz/t Au and 71.4% $SiO_2$. No 2 shaft sunk 2,600'.<br>**1968–69**: mag, EM, dd.<br>**1980–81, 1984**: dd.<br>**1985–88**: shaft dewatered, u/g dev, dd u/g and surf, bulk sampling.<br>**1989**: stope preparation; feasibility study. | ***(i) No 1 Vein***: 1,101,127 proven, prob, poss & geol at 0.17 oz/t Au (20% dil)<br>***(ii) Nos 3, 4 & 5 Veins***: 1,432,728 prob & poss at 0.158 oz/t Au<br>***1987***<br>(Nova Beaucage ML, 1987 AR) | Cyanidation tests reportedly gave recoveries of 91–94.5% Au. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 279 | HALLIWELL<br>Expln Mirandor Inc<br>32 D/6<br>48°15.2' 79°11.0' | Disseminated to massive py–cp–po in andesite, with Bi–Mo values. | **1926–29**: trenching, SP survey, dd.<br>**1933–36**: dd.<br>**1936–37**: shaft sunk 496' with dev work on third level, bulk sample test.<br>**1938**: shipped 2,700 at 0.562 oz/t Au; u/g dev.<br>**1944–47**: mag survey, dd.<br>**1967**: mag and EM surveys, dd.<br>**1970**: dd.<br>**1973–74**: shaft dewatered, u/g dd.<br>**1988**: surf sampling.<br>**1989**: dd. | 200,000 at 1.5–2% Cu in 3 zones above 450' ***1974*** (MSE FS 30/04/75, Jupiter Dev Corp L)<br>***or*** c40,000 at 0.33 oz/t Au, 1.73% Cu (Expln Mirandor Inc, 1987 AR) | An otpion to acquire 60% int was granted to American Barrick Res Corp in late 1988. |
| QUE. 280 | HORNE MINE<br>Noranda Inc<br>32 D/6<br>48°15.3' 79°00.7' | Horne is the largest composite base metal–gold sulphide deposit of volcano–exhalative origin so far found in Quebec. 31 separate orebodies were mined.<br>No 5 zone stratigraphically immediately overlies the formerly highly productive 'H' zone and consists of massive py–po with minor sph, cp. | **1920–23**: mine discovered, trenching, dd.<br>**1923–62**: 6 shafts sunk with levels down to 8,000'.<br>**1925–27**: smelter erected.<br>**1927–76**: milled 59,000,000 at 2.2% Cu, 0.17 oz/t Au, 0.56 oz/t Ag (recovered grade) plus py, Te, Se.<br>**1984–86**: u/g dev of the Remnor fluxing Au deposit, prod 1985–89. | ***(i) No 5 zone***: 60,000,000 at 40% S, 0.60% Zn, 0.11% Cu, minor Au, Ag ***1948*** (Que DV 85–08, p18)<br>***(ii) Remnor***:<br>***a) flux***: 604 969 mt at 5.49 g/t Au<br>***b) sulphide***: 226 750 mt at 6.51 g/t Au<br>***1989***<br>(Que DV 89–01, p 10) | Parts of zone 5, rich in Cu and Au, had been selectively mined.<br>The extraction of the remaining low–grade pyritic zinc orebody would require expensive dev for large scale u/g mng; not regarded economic at present.<br>Mining at Remnor ceased in July 1989 as exploitation of Silidor mine's superior fluxing ore was to start shortly. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 281 | INMONT<br>Teck Corp<br>32 D/6<br>48°18'30" 79°19'36" | Rhyolitic breccia cemented by sulphs, prob representing a volcanic exhalative feeder chimney. | **1925–26**: tr, dd.<br>**1927–28**: shaft to 560', lateral advances, dd.<br>**1934–35**: small ore shipments.<br>**1952, 56–60**: dd, resistivity and IP surveys.<br>**1980**: EM Pulse, dd.<br>**1987–88**: dd. | Geol res: 28,550 at 2.52% Cu, 0.44% Zn, 0.32 oz/t Ag, 0.267 oz/t Au to 50 m, and 79,000 at 1.94% Cu, 0.23% Zn, 0.29 oz/t Ag, 0.09 oz/t Au from 50 m to 100 m depth, and poss: 33,400 at 0.335 oz/t Au equivalent from 40 to 90 m depth<br>*or* prob & poss: 124 231 mt at 4.57 g/t Au, 1.7% Cu to 145 m<br>***1987***<br>(Que GM–47703, 1987) | |
| QUE. 282 | LAKE DUFAULT NO 1<br>Minnova Inc<br>32 D/6<br>48°18'27" 79°03'45" | Low–dipping massive sulphide lens, about 500' x 150' x 16' (thick), lying directly on the Amulet Rhyolite and overlain by the Amulet Andesite, at a depth of 1,700'. Volcanogenic; underlain by dalmationite alteration pipe. | **1941**: discovery by dd from u/g workings in adjoining Amulet–Dufault ground.<br>**1941–46**: heading driven above deposit on 1,050' level of A–D, u/g dd.<br>**1950**: dd. | 100,000 at 8.32% Zn<br>***1945***<br>(Lake Dufault ML, 1950 AR)<br>*or* 73 000 mt at 8.65% Zn, 0.17% Cu, 45.26 g/t Ag, 0.68 g/t Au<br>(GAC Sp P 25, p 269, 1982) | Located 3,500' NW of Millenbach shaft. |
| QUE. 283 | LANAUDIÈRE (GARNEY)<br>Goldcop ML<br>32 D/6, 11<br>48°30.0' 79°06.2' | Gold–bearing zone of shearing, brecciation, silicification and carbonatization, 2.5' to 5' wide between pillow lavas and a qtz–feldspar porphyry. | **1939**: discovery, trenching.<br>**1940, 1946, 1961–65**: dd.<br>**1965**: shaft sunk 232' with 1,250' lateral headings on 2 levels.<br>**1966–67**: dd.<br>**1975**: mag, IP, resistivity and geochem surveys by Louvem.<br>**1978–79**: geochem, dd.<br>**1981**: geoph surveys, minor dd. | 222 762 mt at 2.69 g/t Au (15% dil) ***1981***<br>(Expl Aiguebelle Inc, 1982 AR) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 284 | MAGUSI<br>Noranda Inc<br>32 D/6<br>48°26.5' 79°22.4' | Volcanogenic, stratabound sulphide (po, py, cp, sph) body with Cu–rich and Zn–rich zones in altered acidic volcanics (qtz–sericite schist). | **1962**: dd – 1 hole drilled by Mining Corp of Can L missed the deposit by 150'.<br>**1972–73**: discovery by dd, in follow–up of INPUT and Dighem surveys.<br>**1973–74**: SP, resistivity, seismic, mag and EM surveys.<br>**1976**: dd.<br>**1987**: dd. | 4,110,000 at 1.20% Cu, 3.55% Zn, 0.032 oz/t Au, 0.91 oz/t Ag ***1973***<br>(NM 14/06/73)<br>*or* 1,520,000 at 1.0% Cu, 4.8% Zn, 0.04 oz/t Au, 1.0 oz/t Ag<br>(Noranda ML, 1977 AR) | Noranda ML purchased the property in 1974 from Iso ML and Copperfields Mng Corp.<br>The deposit is exploitable in part by o/p and in part u/g.<br>Very fine grained sph in the pyritic Zn zone may cause recovery problems. |
| QUE. 285 | NEW INSCO (FABIE BAY)<br>Deak Res Corp<br>32 D/6<br>48°26'27" 79°21'06" | Volcanogenic, stratabound sulphide (po, cp, py) deposit in rhyolitic breccia, between rhyolite and (overlying) andesite. | **1972–73**: VLF survey, dd.<br>**1975**: o/p preparation, decline driven with 3 levels.<br>**1976–77**: shipped 103,000 dev ore to the Horne mill. | Mineral Inventory: 874,000 at 2.59% Cu, 0.60 oz/t Ag ***1981***<br>(Noranda ML, 1981 AR)<br>*or* dd–ind: 1,164,446 at 2.4% Cu<br>(CMH 1989–90, p 142) | The deposit contains about 0.02 oz/t Au. |
| QUE. 286 | NEW MARLON<br>Noranda Inc<br>32 D/6<br>48°15.9' 79°04.2' | Qtz vein in a basic dyke filling a tension fracture in the dioritic phase of the Powell batholith. Gold occurs with py and in the native state. | **1934, 1937, 1944–46**: trenching, dd.<br>**1946–48**: shaft sunk 789' with 6 levels.<br>**1947–49**: shipped 108,000 at 0.19 oz/t Au.<br>**1961–62**: geoph survey, dd outside mine area.<br>**1967**: under option by Kennco. | Broken: 14,166 at 0.186 oz/t Au *and* poss in place: 42,000 at 0.19 oz/t Au ***1948***<br>(New Marlon GML, 1948 AR) *or* 56,166 at 0.22 oz/t Au ***1950***<br>(NM 28/01/65) | The grades reported by New Marlon GML incl allowance for dilution; all above 600' level. During 1949 the company shipped 25,357 tons which prob decreased resources remaining to less than 56,000 tons.<br>Now part of the Ribago property explored by Noranda, Cambior and Nova–Cogesco. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 287 | POWELL ROUYN<br>Lac Mnrls L<br>32 D/6<br>48°15.8' 79°03.1' | A carbonatized mafic dyke containing the Powell vein (2 or more discontinuous qtz veins) fills a tension fracture in the Powell albite granite. Gold is contained in auriferous pyrite and minor tellurides inside and outside the veins. | **1922–24**: discovery, trenching, dd, No 1 shaft sunk with one level.<br>**1934–35**: dd.<br>**1936**: No 1 shaft deepened, 2 levels added.<br>**1937–44**: No 2 shaft sunk 2,625' with 16 levels; No 3 shaft sunk 360' with 2 levels.<br>**1952–53**: winze sunk from 2,450' to 3,210' with 4 lowest levels.<br>**1937–55**: prod 3,100,000 at 0.13 oz/t Au, mostly fluxing ore for the Noranda smelter.<br>**1956–59, 1961–62, 1967**: dd outside the mine area.<br>**1985**: dd.<br>**1988**: geochem, geoph, dd. | 102,000 at 0.136 oz/t Au, 72% $SiO_2$ above 2,450' and 400,000 at unstated grade below 2,450' ***1955*** (NM 28/01/65) | Tom Powell's discovery in September 1922 precipitated the original Rouyn rush leading to the discovery of many other mines in the area. |
| QUE. 288 | QUESABE MINE<br>Cambior Inc<br>32 D/6<br>48°17.7' 79°12.9' | Gold occurs in a mineralized qtz vein along the footwall of the Quesabe fault and in veins branching into the FW rhyolite. | **1929**: discovery.<br>**1934–35**: trenching, dd, No 1 shaft sunk 325', work on one level.<br>**1945**: mag survey, dd.<br>**1948–50**: No 1 shaft deepened to 635'. No 2 shaft sunk 1,050' with 5 levels.<br>**1949–52**: prod 100,000 at 0.3 oz/t Au.<br>**1960–62**: mag survey, dd.<br>**1974**: IP survey.<br>**1981**: completed 8,437' dd.<br>**1983–85**: dd. | Proven: 14,591 at 0.3 oz/t Au ***1952*** (Que PR 330, p 41, 1952) *or* 225,000 at 0.30 oz/t Au to 500' ***1979*** (NM 18/10/79) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 289 | SILIDOR<br>Noranda Inc (55%), Cambior Inc (25%), Nova–Cogesco Res Inc (20%)<br>32 D/6<br>48°15.1′ 79°05.0′ | Au in qtz in a NW fracture zone in Powell granitic stock. | **1985–87**: dd.<br>**1987–89**: shaft to 1,840′, u/g dev, bulk sampling, shipping dev ore. | Prob: 1,619,000 at 0.18 oz/t Au ***plus*** poss: 3,822,300 at 0.18 oz/t Au ***1987***<br>(Cambior Inc, 1987 AR) | To commence prod Jan. 1990 at 22 000 mt/mo initially rising to 400 000 mt/yr a year later. |
| QUE. 290 | SOUTH RUSTY HILL<br>Minnova Inc<br>32 D/6<br>48°17.8′ 79°04.3′ | Dissem to massive stringer sulph minrl'n in at least three parallel fracture zones; in Amulet andesite. | **1955–56**: dd, disc, more dd since.<br>**1980–82**: u/g headings driven here from Corbet mine. | 150,000 at 1.41% Cu, minor Au, Ag ***1955***<br>(Que PR 390, p 40, 1959)<br>***or*** 500,000 at 0.9% Cu<br>(R Marcotte, oral to A G Sozanski, 04/82) | Some ore may have been mined in 1980–82. |
| QUE. 291 | WAITE DUFAULT (BEDFORD HILL)<br>Minnova Inc<br>32 D/6<br>48°18.7′ 79°06.6′ | The deposit consists of disseminated to massive py, po, cp in brecciated rhyolite. | **1945–46, 1949**: dd.<br>**1956–57**: EM survey, dd.<br>**1959–61**: IP survey, dd.<br>**1967–68**: dd.<br>**1971**: geoph survey, dd.<br>**1975–76**: dd.<br>**1977**: geochem survey.<br>**1980–85**: dd. | Dd–ind: 252,000 at 1.45% Cu ***1961***<br>(CMH 1979–80, p 287)<br>***or*** 92,000 at 0.89% Cu for o/p ***c 1976***<br>(GSC P 80–1A, p 119) | Under option since 1973 by Minnova Inc and predecessor cos which have since completed 83,000′ dd. More dd was planned for 1989. |
| QUE. 292 | ARROWHEAD<br>Que Cobalt and Explor L<br>32 D/7<br>48°16.4′ 78°40.6′ | Two principal gold–qtz veins as discontinuous lenses within shears in andesite. | **1923–26**: test pits.<br>**1929–30**: prospect shaft, dd.<br>**1934–37**: dd, shaft sunk 520′ with 2,600′ lateral advance on 3 levels.<br>**1980**: geoph surveys.<br>**1981**: IP survey, dd.<br>**1987–88**: 24,000′ dd. | 6,000 at 0.57 oz/t Au ***1937***<br>(NM 22/12/60) | Explored jointly by Omega Expln Inc and Farboro Res Inc in 1987–88, under option that was dropped. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 293 | BASSIGNAC<br>Cambior Inc<br>32 D/7<br>48°27.9' 78°54.9' | Au in two parallel ENE zones within carbonatized, silicified and pyritized andesite, on the north side of Destor fault. | **1986**: disc, dd.<br>**1987–88**: dd, ramp advanced 1,355'; mined 35,000 at 0.124 oz/t Au | 250,000 at 0.2 oz/t Au<br>*or (i)*: 104,640 at 0.111 oz/t Au (dil)<br>*(ii)*: 23,500 prob at 0.07 oz/t Au<br>***1987***<br>(Les Affaires 19/12/87) | The u/g program showed the deposit to be small and the mineralization erratic. |
| QUE. 294 | CLAREMONT<br>Mine d'Étain du Qué L (in 1986)<br>32 D/7<br>48°17.7' 78°50.3' | Gold in qtz masses with py, tourmaline, 20'–100' wide, 170' long, in andesite and tuff. | **1935**: discovery, trenching, dd.<br>**1937**: sunk 265' shaft with 2 levels.<br>**1946–47**: geoph surveys, dd.<br>**1973**: mag survey.<br>**1974, 1977**: surface sampling, testing.<br>**1981**: sampling and evaluation. | 200,000 at 0.2 oz/t Au above 150' ***1947***<br>(FP Surv Ms 1948, p 277) | Work in 1977 showed conclusively that the silica content of the deposit was insufficient to qualify it as fluxing ore.<br>The tonnage figure may have been considerably over–estimated. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 295 | DONALDA (KERRALDA)<br>Minnova Inc (65%), Syngold Expln Inc (35%)<br>32 D/7<br>48°15.7' 78°59.1' | Two composite qtz veins (Nos 1 and 2), parallel but divergent in dips, cut rhyolite and rhyolite breccia. | **1943–45**: mag survey, dd, discovery.<br>**1946**: shaft sunk 717' with 4 levels.<br>**1948–55**: shipped 695,000 at 0.18 oz/t Au from No 1 vein.<br>**1952–56**: u/g dev of No 2 vein from Quemont mine workings and lower levels of Donalda after its shaft deepened to 1,861' in 1955–56.<br>**1969**: Donalda workings dewatered, dev resumed on No 2 vein.<br>**1970**: shipped 37,000 at 0.19 oz/t Au from No 2 vein.<br>**1974, 80–81, 84, 86–87**: dd.<br>**1988–89**: workings dewatered, u/g dev, bulk sampling, dd. | ***(i) No 1 Vein Extension***: 517,000 at 0.25 oz/t Au undil<br>***(ii) No 2 Vein***: 287,000 at 0.25 oz/t Au undil ***1987***<br>(NM 10/04/87) | Feasibility study to be undertaken during the latter part of 1989. |
| QUE. 296 | FAYOLLE<br>Minnova Inc (40%), Expln Essor Inc (30%), Cameco (30%)<br>32 D/7<br>48°26'15" 78°48'20" | Au in a NE–trending zone, prob in volcs, on the north side of the ESE–trending Destor fault. | **1987**: dd. | Prob: 173,803 at 0.22 oz/t Au; poss: 34,200 at 0.226 oz/t Au ***1987***<br>(Finance 11/04/88) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 297 | GALLEN<br>(WEST MACDONALD)<br>Les Ms Gallen Ltée<br>(Noranda 51%, MacDonald M Expln L 49%)<br>32 D/7<br>48°19.5′ 78°57.2′ | At least 4 stratabound massive pyritic bodies, carrying small amounts of sph, occur in a mass of rhyolitic breccia, about one half mile in diameter, entirely surrounded by Lake Dufault granodiorite. | **1923–28**: discovery, trenching.<br>**1929**: dd.<br>**1936**: test pits.<br>**1939–52**: dd.<br>**1946–48**: shaft sunk with 4 levels to 925′, u/g dev and dd.<br>**1949**: bulk sample tests.<br>**1954**: 6-mi aerial tramway erected to Waite Amulet mill.<br>**1955–59**: No 1 orebody mined u/g with 1,000,000 conveyed to Waite Amulet, recovering 2.7% Zn, minor Ag, Au, Cu and 724,000 lt py concentrate.<br>**1981–82, 1984–86**: o/p shipments from East orebody.<br>**1986**: dd. | ***(i) No 1 orebody***:<br>9,000,000 at 80% py, 3% Zn *c* ***1950***<br>(Que PR 330, p 36, 1956)<br>***(ii) East orebody***:<br>765,000 by o/p at 6.67% Zn, 0.024 oz/t Au, 0.79 oz/t Ag, ***plus*** 385,000 u/g at 7.19% Zn, 0.025 oz/t Au, 1.03 oz/t Ag, and 261,000 deeper u/g at 6.55% Zn<br>***1989***<br>(CMH 1989–90, p 275) | Large tonnage estimates have been given for low-grade pyritic deposits on the property, e.g. 28,305,814 at 47.20% py, 1.361% Zn, 0.0154 oz/t Au, 0.3917 oz/t Ag (McDonald ML, 1947 AR)<br>Deak Res Intl was negotiating with the principals to resume prod from East zone as early as fall of 1989. |
| QUE. 298 | MOUSKA (MIC MAC)<br>Cambior Inc<br>32 D/7<br>48°16.0′ 78°33.8′ | A series of gold-bearing lenses occur, within a length of 1 km, in a 150 m wide corridor, up to 350 m deep, in volcanics along the northern contact of the Mooshla trondhjemite stock. | **1936**: discovery of mine zone.<br>**1937–39**: trenching, sampling, dd.<br>**1938–43**: shaft and winze sunk 1,350′ opening 6 levels.<br>**1942–47**: prod 107,000 oz Au, plus Ag, Cu from 800,000 milled.<br>**1947–50**: geoph surveys, dd.<br>**1956, 1962, 1969, 1973–74**: mag and EM surveys, dd.<br>**1979**: dd.<br>**1980–86**: geoph, dd.<br>**1987–88**: dd.<br>**1988–89**: shaft sunk, dd on several Ls. | 1,802,000 at 0.18 oz/t Au (20% dil) ***1988***<br>(Cambior Inc, 1988 AR) | Feasibility study is to be completed early in 1990. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 299 | SOUTH DUFAULT<br>Cambior Inc (60%)<br>South Dufault ML (40%)<br>32 D/7<br>48°17.1' 78°56.4' | The deposit (No 1 zone) occurs in a porphyritic rhyolite breccia as a flattish mass of disseminations, stringers and massive patches of cp, py and sph, overlain by a sheet of diorite. | **1928–42**: intermittent surface exploration.<br>**1946**: mag survey.<br>**1947–57**: dd, EM surveys.<br>**1959**: resistivity, EM surveys.<br>**1960**: dd – discovery of No 1 zone.<br>**1961–64**: dd, mag, EM and resistivity surveys.<br>**1967–68, 1974**: dd.<br>**1982**: dd. | 50,000 at 1.6% Cu *or*<br>240,000 at 1.08% Cu<br>***1960***<br>(Que PR 472, p 27, 1962) |  |
| QUE. 300 | WARRENMAC SOUTH<br>Lac Mnrls L & Cambior Inc<br>32 D/7<br>48°15'10" 78°30'25" | Zone traced 1,800' ESE in carbonatized, siliceous and chloritic schists, contains diss py. | **1935–36**: disc, tr.<br>**1938, 45–46**: dd.<br>**1987–88**: dd. | Mineral inventory:<br>187,000 at 0.20 oz/t Au, 0.8 g/t Ag, 3.2% Zn ***1988***<br>(Cambior Inc, 1988 AR) | The deposit is located on the Doyon mine property, about 2,000' ESE of the open pit. |
| QUE. 301 | WILCO<br>Noranda Inc & Cambior Inc<br>32 D/7<br>48°15.2' 78°59.0' | The East Bay gold deposit consists of one principal and subsidiary qtz veins in andesite, apexing at 500' depth. The main vein is up to 4.5' thick, but usually less than 2.5'. | **1934, 1957–58, 1980**: dd of Au zone.<br>In addition, extensive exploration for Cu, including two shallow shafts, dd, geoph surveys has been carried out intermittently between 1933 and 1979.<br>**1986–88**: dd. | ***(i) Gold vein***: 200,000 at 0.25 oz/t Au<br>***(ii) Copper zone***: 198,000 at 0.75% Cu<br>(Soc d'Expln Min Mazarin Inc, 1987 AR) |  |

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| QUE. 302 | ANGLO AMERICAN (CADILLAC MOLY)<br>Lac Mnrls L<br>32 D/8<br>48°19'12" 78°22'45" | Qtz and pegmatitic qtz veins in biotite granite and greenstone, contain mo, bismuthinite and native bismuth. | **1906–11**: trenches and pits, bulk sample test.<br>**1959–60**: dd.<br>**1960–63**: shaft sunk 770' with 5 levels, o/p prepared for mng, metallurgical tests.<br>**1964–65**: 1,200 t/d mill erected.<br>**1965–70**: prod 1,940,000 at 0.18% $MoS_2$, 0.03% Bi by o/p and from u/g. Mine closed when company declared bankruptcy.<br>**1978**: property leased by Dumagami ML.<br>**1979–80**: shaft dewatered; x–cut on 600' L extended into Preissac south zone. | 507,000 at 0.19% $MoS_2$, 0.03% Bi ***1970***<br>(Que DP–223, p 7, 1974) | In 1979–80, Cadillac Moly mine's workings were used to access and explore adjoining Preissac property's moly zones by dd and lateral headings. |
| QUE. 303 | ATAMAN<br>32 D/8<br>48°20.3' 78°11.4' | Nickeliferous po with cp, apparently conformable with and at the north edge of serpentinized ultramafic flows (Archean); on the overturned south limb of the Marbridge anticline. | **c 1930**: trenching.<br>**1957, 1961, 1963**: mag, EM, resistivity surveys.<br>**1961–63**: dd. | Dd–ind: 1,050' x 5.9' at 0.76% Ni ***1963***<br>(Que GR 160, p 118, 1976) |  |
| QUE. 304 | AUTHIER<br>GH Dumont<br>32 D/8<br>48°21.6' 78°11.9' | Pegmatite, containing spodumene, locally lithiophilite, and rarely beryl and molybdenite, lies in a septum of volcanics and sediments between the Preissac and La Motte batholiths. | **1962–63**: mag and EM surveys, dd. | Poss: 6,400,000 at 1.14% $Li_2O$ *c* ***1965***<br>(Que GR 160, p 132, 1976) | The deposit, indicated by 13 holes, is at least 1,450' long and 130' in horizontal width, has been partially tested down to 400', and is still open at both ends and at depth. |

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| QUE. 305 | BILSON LA MOTTE<br>Expln Témisca Inc<br>32 D/8<br>48°19.9' 78°09.2' | Apparently conformable zones of Ni, Cu and Co bearing sulphides in serpentinized Archean ultramafic flows, on the overturned SW limb of a regional anticline. | **1957–59**: discovery; mag, EM, resistivity surveys, trenching, sampling.<br>**1959–70**: dd.<br>**1974**: dd. | Dd–ind:<br>***(i) North***: 200' × 10.9' at 0.68% Ni<br>***(ii) Central***: 250' x 5.2' at 1.37% Ni<br>***(iii) South***: 150' x 8.2' at 0.81% Ni<br>***1970***<br>(Que GR 160, p 120, 1976) |  |
| QUE. 306 | BOUVIER<br>G Leclerc<br>32 D/8<br>48°27.1' 78°05.9' | Pegmatite dyke in qtz–biotite schist. | **1947–49**: stripping, bulk sampling, concentration test.<br>**1951, 1953**: dd. | 1,000,000 at 20% spodumene ***1953***<br>(Que Fiche: Figuery–08, 1977) | Tonnage calculation, based on limited dd, assumes a length of 600', width of 30' and depth of 500'. Avg grade is prob overestimated as a bulk sample assayed only 1.39% $Li_2O$; a flotation test gave a 5.06% $Li_2O$ concentrate with a recovery of 68.4%. |
| QUE. 307 | DUVAL<br>A Garneau (in 1985)<br>32 D/8<br>48°22.6' 78°06.4' | A roughly zoned pegmatite dyke has a spodumene–rich core of qtz, mica and feldspar. | **1955–56**: mag and EM surveys, dd. | Dd–ind: 75,000 at 0.78–1.45% $Li_2O$ ***1957***<br>(Que GR 160, p 134, 1976) | Open in 1989. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 308 | ELLISON<br>Yorbeau Ms Inc<br>32 D/8<br>48°15.2' 78°28.5' | Two gold-bearing zones occur at different depths within a band of pyroclastics dominated by basic tuffs.<br>The upper zone, A, is relatively narrow and contains auriferous py with minor cp and sph.<br>The lower zone, C, contains little veins of py and free gold and qtz veins rich in py, po, cp and free gold. The zone is 300' wide. | **1945**: dd.<br>**1980–81**: geoph, dd, discovery.<br>**1983–85**: dd, shaft collared. | ***(i) A zone***: 194,000 prob at 0.25 oz/t (undil) ***and*** 667,000 poss at 0.19 oz/t Au (undil) to 1200' ***1984***<br>(Yorbeau Res Inc, 1984 AR)<br>***(ii) C zone***: 1,000,000 poss at 0.13 oz/t Au between 1,200' and 2,500' ***1984***<br>(Que DV 85–02, p 21, 1985) | The property is located between the Doyon and Bousquet mines. |
| QUE. 309 | HEIGHT OF LAND<br>L Bérubé<br>32 D/8<br>48°25.6' 78°20.7' | Moly, bismuthinite, some beryl, and occasionally the rare beryllium silicate, phenacite, occur on either side of the contact between granite and biotite schist (metasediments) at the west rim of the La Motte batholith, most frequently in pegmatites and veins of pegmatitic qtz. | **1906**: discovery, staking.<br>**1907**: shaft sunk 74' with 87' lateral advance from its bottom.<br>**1914**: second shaft sunk 55' and some ore stoped, cobbed and shipped.<br>**1966–68**: dd. | Ind: 218,520 at 0.20% $MoS_2$, 0.047% Bi ***1968***<br>(CMH 1969–70, p 237) | |
| QUE. 310 | INTERNATIONAL LITHIUM<br>G Leclerc<br>32 D/8<br>48°27.0' 78°05.3' | The main spodumene deposit consists of a number of pegmatite dykes along a sedimentary–volcanic contact, north of the La Motte batholith. The dykes also carry minor beryl, molybdenite, and columbite–tantalite. | **1954–55**: dd by Int'l Lithium Mng Corp L for Li.<br>**1963–64**: mag and EM surveys, dd in search of Ni. | Dd–ind: 135,000 at 0.95% $Li_2O$ ***1954***<br>(Que SP–2, p 106, 1967) | The deposit is mostly under the waters of Harricana River. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 311 | MOLY HILL<br>**Ress Beauchastel Inc**<br>32 D/8<br>48°18.2' 78°12.4' | Mo–Bi sulphides erratically distributed along 700' in pegmatite and pegmatitic qtz veins. | **1939**: bulk sampling, dd.<br>**1941–42**: trenches and pits.<br>**1957–59**: dd.<br>**1963**: trenches and pits, flotation tests.<br>**1965–66**: dd. | ***(i)*** 110,088 for o/p at 0.22% $MoS_2$, 0.61% Bi<br>***(ii)*** 162,316, available u/g to 225', at 0.22% $MoS_2$, 0.079% Bi<br>***(iii)*** 345,604 elsewhere, at 0.01–0.10% $MoS_2$<br>***1966***<br>(G H Dumont 25/01/66 rept to Moly Hill Mng Corp L) |  |
| QUE. 312 | NEWCONEX FIGUERY<br>**Breakwater Res L**<br>32 D/8<br>48°28'43" 78°10'15" | Stratiform sulphide (py, sph, cp, gal) deposit formed by volcanic exhalation, with subsequent sulphide remobilization. Sph and cp occur in massive veinlets cutting a massive py body of 500'–600' by 15'–20' by 600'–700' deep. | **1962**: geol and mag surveys.<br>**1973**: ground mag and EM.<br>**1973–74**: dd. | Dd–ind: 500,000 at 5% Zn, 2 oz/t Ag ***1974***<br>(Que Fiche: V–Fig–2, 1975) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 313 | PREISSAC<br>Dumagami ML<br>32 D/8<br>48°19.3′ 78°22.9′<br>(South zone) | In the North Contact zone (Preissac shaft area), moly, native bismuth and bismuthinite occur mainly in qtz veins, which are often composite with pegmatite dykes on either side of the contact between granite and biotite–hornblende schists (metamorphosed basic volcanics).<br>The South zone and Blueberry vein, located 2 mi farther SE, are on the NW extensions of former Cadillac Moly mine, where the deposits are similar to those at the Preissac shaft. | **1909–16**: trenches and test pits.<br>**1918–19**: prospect shaft sunk and 100–ton mill constructed.<br>**1943–44**: dd, decline driven with lateral advance and stopes on one level, 400–ton mill erected and treated 69,000 tons ore.<br>**1956–57**: dd.<br>**1960–63, 1967**: shaft sunk 1,335′ with 8 levels.<br>**1963–64**: 600–ton mill constructed, its capacity doubled in 1965.<br>**1964–71**: u/g mng, mostly above 700′, prod 2,300,000 at 0.305% $MoS_2$, 0.03% Bi.<br>**1979–80**: dd from Cadillac Moly's 300′ and 600′ L's on ***(ii)*** and ***(iii)***. X–cut extended on 600′ L into ***(ii)***. | ***(i) North Contact zone***: 1,105,000 at 0.31% $MoS_2$, 0.024% Bi above 1,000′ ***1971***<br>***(ii) South zone***: 322,549 at 0.45% $MoS_2$ ***1980***<br>***(iii) Blueberry vein***: 174,114 at 0.27% $MoS_2$ ***1980***<br>(Mentor Expl & Dev CL, 1978 and 1979 ARs) | The South zone contains 0.016–0.019% Bi. |
| QUE. 314 | WESTWOOD<br>Lac Mnrls L &<br>Cambior Inc<br>32 D/8<br>48°15′18″ 78°29′22″ | The main vein is a pyritic carbonate zone accompanied by lenses and granules of qtz; in felsic pyroclastics. | **1933–34**: disc, tr, dd.<br>**1936**: surf work.<br>**1937–38**: shaft to 250′, drifting on one L, surf and u/g dd.<br>**1940, 44, 88**: dd. | Mineral inventory: 460,000 at 0.27 oz/t Au to 650′ ***1988***<br>(Cambior Inc, 1988 AR) | Located on the Doyon mine property, 7,000′ east of the open pit. |
| QUE. 315 | QUEBEC BERYLLIUM<br>Quebec Beryllium L<br>(in 1955)<br>32 D/8<br>48°26.2′ 78°08.0′ | Beryl, mica and columbite–tantalite occur in a number of pegmatite dykes. | **1954–55**: unspecified | 5,000,000 at 0.3% beryl ***1955***<br>(Que DP–184, p 45, 1974) | The tonnage is stated to be contained in 11 pegmatite dykes, from 1′ to 60′ wide. The prospect did not rate a mention in J.I. Sharpe's report (Que PR 446, 1961) of the area. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 316 | AMOS (CONIGO)<br>Jonpol Expls L<br>32 D/9<br>48°35.8′ 78°03.5′ | Stratiform, volcanogenic py, cp, sph in felsic pyroclastics. 4 zones in a length of 2,000′. | **1913**: discovery.<br>**1916**: prospect shaft sunk.<br>**1926–27**: Jay shaft sunk 1,260′, advance on 4 levels.<br>**1946**: mag and SP surveys.<br>**1950–51, 1956–57, 1967–69, 1972**: dd.<br>**1968–70**: EM, mag and IP surveys.<br>**1980–81**: IP survey, dd.<br>**1983**: dd. | ***(i) Main West***: 2,155,000 at 1.26% Cu, 0.5 oz/t Ag<br>***(ii) Lower West Zn–Ag–Cu–Au***: 815,000 dd–ind at 3.21% Zn, 3.55 oz/t Ag, 1.25% Cu, 0.012 oz/t Au<br>***(iii) Upper Zn–Ag***: 20,000 at 4% Zn, 8 oz/t Au<br>***(iv) Jay***: 26,000 at 3.5% Cu, 1 oz/t Ag<br>***1983***<br>(Jonpol Explns L, 1985 AR) | Standard flotation tests gave suitable concentrates grading 18.5% Cu and 12.2 oz/t Ag.<br>Ground between the West and Jay zones, which may contain parts of these zones, came open in 1988 and was restaked by E Bawolak. |
| QUE. 317 | DUMONT (LAUNAY–TRÉCESSON)<br>Dumont Nickel Corp<br>32 D/9<br>48°39′ 78°26′ | Finely disseminated heazlewoodite, millerite, pn and awaruite with magnetite, within a mafic–ultramafic belt 4.5 mi long and 2,000′ wide. The central core of the intrusive, 30′ to 100′ wide composed of serpentinitized dunite, carries the highest Ni values. Iron sulphides are conspicuously lacking. The deposit probably originates by magmatic segregation. | **1950**: mag survey, dd.<br>**1956**: dd.<br>**1959–60**: mag and EM surveys, dd.<br>**1968–72**: dd, Ni recovery tests, feasibility study.<br>**1973–74**: metallurgical tests.<br>**1982**: dd for metallurgical testing.<br>**1987**: dd. | 350,000,000 at 0.34% Ni, to 1,000′ *or* Central zone only: 15,500,000 at 0.646% Ni after dilution, to 1,500′ ***1972***<br>(CMH 1979–80, p 100) | Low–grade deposit that would require large scale mining. Start–up costs for a 50,000 t/d operation were estimated at $300 million c 1974. Bench scale and pilot plant tests by Timiskaming Nickel L gave 70–80% Ni recoveries in 8–20% concentrate. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 318 | LYNDHURST<br>Globex Mng Enterprises Inc<br>32 D/10<br>48°34.3' 78°57.7' | Lenticular concentration of py, cp within a shear in a rhyolitic agglomerate. | **1926**: trenching, Radiore survey, dd.<br>**1930**: shaft sunk 120'.<br>**1937**: dd.<br>**1946, 1948**: dd, mag and SP surveys.<br>**1950–52**: dd.<br>**1955**: shaft sunk 709' with 5 levels.<br>**1956–57**: shipped 156,000 to Beattie mill, recovering 1.78% Cu, 0.33 oz/t Ag, 0.001 oz/t Au.<br>**1970**: geoph survey.<br>**1988**: mag and EM. | 65,000 at 2% Cu ***1957***<br>(Que SP–4, p 114, 1969) | Under option by Minnova Inc. |
| QUE. 319 | MESSEGUAY (LAUNAY–PRIVAT)<br>Messeguay M Inc<br>32 D/10<br>48°39.9' 78°37.9' | Qtz–carb–sulph veinlets in shear zones at the SE border of a batholith. Zone 75 consists of diss py and mo in an altered granodiorite. | **1932**: first Au disc.<br>**1949–51**: mag survey, dd.<br>**1964**: dd.<br>**1982–84**: mag, EM, IP, sampling.<br>**1986–89**: dd. | ***(i)*** 1,000,000 geol res at 0.05–0.21 oz/t Au ***1987*** (Messeguay M Inc, release 29/04/87)<br>***(ii) Zone 75***: 541,300 prob & poss at 0.116 oz/t to 300' ***1988*** (NM 25/07/88) | A 70% int option was acquired late 1988 by Corona Corp. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 320 | **BEATTIE MINE**<br>Eldorado GM Inc<br>32 D/11<br>48°30.6' 79°14.2' | The principal orebodies occur at, or on either side of, the contact between the Beattie intrusive syenite porphyry and adjoining tuffs and volcanics. Most of the ore is a breccia of altered and bleached tuffs cemented by a network of fine–grained qtz and carb stringers, mineralized with auriferous py and asp. | **1930–31**: discovery, dd.<br>**1932**: two shafts sunk opening 6 levels.<br>**1933–56**: prod 10,700,000 at 0.126 oz/t Au from Beattie and Donchester sections.<br>**1939–40, 1955**: winze sunk to 1,075 with 7 new levels.<br>**1943**: glory hole caved in filling u/g workings with clay, resulting in suspension of prod for 2.5 yrs while clean–up was under way. | 2,270,000 at 0.131 oz/t Au ***1943***<br>(NM 27/02/47) | These resources remained in the glory hole and underlying stopes, buried in clay and sealed off after the disastrous cave–in of 1943. It is possible that some of this tonnage was accessed and mined before the shut–down in 1956.<br>Only about one third of the gold mined occurred in the free state. The flotation concentrate required roasting and in the process arsenious trioxide was recovered. |
| QUE. 321 | **CENTRAL DUPARQUET (DALEMBERT)**<br>Ress Min Forbex Inc<br>32 D/11<br>48°30.2' 79°11.7' | Gold occurs in lenses, mainly with fine–grained py and asp, in a narrow band of greenstone and the enclosing Beattie and syenite porphyries along a shear subsidiary to the Central Duparquet fault. | **1924–35**: surface work, dd, two shallow shafts – on gold occurrences outside the main one.<br>**1935**: discovery of main zone by dd.<br>**1937–39, 1941**: main shaft sunk 1,000' with 5 levels, dev u/g.<br>**1943–45**: 31 ddh u/g.<br>**1973–75**: airborne and ground mag, soil geochem, 3 ddh.<br>**1980–82**: VLF, mag, IP, geochem, 24 ddh.<br>**1987**: 86 ddh, feasibility of o/p mng studied. | poss: 574 196 mt at 5.1 g/t Au, incl 95 102 mt at 5.42 g/t Au in shaft pillar ***1989***<br>(P Gagnon, rept for Ress Min Forbex Inc, 1989) | The Central Duparquet shaft is connected on 1,000' level with Beattie and Donchester mine workings.<br>Cambior Inc sold the property to Forbex in 1988. |

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| QUE. 322 | **HUNTER MINE**<br>Eldorado GM Inc<br>32 D/11<br>48°33.1' 79°08.4' | Cp associated with qtz veinlets in fractured acidic volcanics. Mineralization weakens between 900–1,500' depths, then strengthens again between 1,500' and 1,800'. Little geological information available. | **1928–32**: trenching, dd.<br>**1945**: trenching, dd.<br>**1955**: dd.<br>**1955–56**: shaft sunk 747' with 4 levels.<br>**1957**: shipped 130,000 at 0.995% Cu to Beattie mill.<br>**1964–65**: deep dd. | Proven: 140,000 at 1.06% Cu above 600'; prob: 94,000 at 1.06% Cu between 600' and 1,000'; poss: 120,000 at 1.99% Cu between 1,400' and 1,800' ***1965*** (Fundy Chemical Int'l L, brochure 29/01/73) |  |
| QUE. 323 | **PORCUPINE WEST**<br>Cogema Can L & Cambior Inc<br>32 D/11<br>48°31.5' 79°29.9' | Gold occurs in lenses in an EW bleached zone in volcs, 500 m south of the Porcupine–Destor fault. The zone contains up to 50% qtz veinlets with some py and cp. | **1986**: geochem, OBd, disc.<br>**1987**: OBd, mag, IP, EM, dd.<br>**1988**: dd. | 234 358 mt mineral inventory at 4.3 g/t Au (20% dil) ***1987*** (Que GM–46481, 1988) |  |
| QUE. 324 | **DUVAN**<br>Aunore Res Inc<br>32 D/14<br>48°53.4' 79°25.8' | Massive sulphides: py, bornite, cp, in a conformable zone, 120' long and 1' wide in qtzite and greywacke. | **1928**: discovery, trenches, pits.<br>**1952–59**: mag survey, dd.<br>**1956–57**: shaft sunk 1,000; with 5 levels, u/g dev.<br>**1960**: shaft dewatered; 1,160 at 11.99% Cu, 2.9 oz/t Ag mined and shipped to Noranda smelter. | 113,013 at 2.50% Cu, 2.94 oz/t Ag (10% dil) above 950' ***1957*** (Prospectus, Aunore Res Inc, 25/04/85) |  |

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| QUE. 325 | ABITIBI ASBESTOS<br>Imco Res Ltd<br>32 E/1<br>49°11'35" 78°02'14" | Cross–fibre chrysotile. About 85% of fibre in lengths from 1/16 to 1/4 inch. In serpentinized peridotite body. Deposit has U–shaped cross–section. | **1958**: airborne mag and EM.<br>**1963**: ground mag, dd.<br>**1966, 1968–69**: dd, milling tests of cores.<br>**1969**: shaft sunk, u/g bulk samples tested.<br>**1972–74**: further bulk sample extraction and testing in on–site pilot plant; market studies.<br>**1975–76**: feasibility study.<br>**1978–79**: dd outside the main zone. | 106,700,000 at 2.8% recoverable Asb fibre (30% 4T, 25% 5R, 35% 6D, 10% 7D) ***1974***<br>(Brinco L, 1979 AR) | Under option to Placer Dome Inc. |
| QUE. 326 | NORMETMAR<br>Expln Min Normetal Inc<br>32 E/3<br>49°00.3' 79°22.3' | Massive sulphs in rhyolite derived by volcanic exhalation. | **1927–29**: dd.<br>**1956**: EM survey.<br>**1959**: mag, SP, EM.<br>**1960**: dd.<br>**1962–71**: u/g headings from Normetal mine; mined and milled 40,000 Cu–Zn–Au–Ag ore below 4000'L.<br>**1970**: disc by dd of Normetmar zone above 1400'.<br>**1987**: dd, tailings sampled.<br>**1989**: ramp started on Normetmar zone. | ***(i) Normetmar zone***: 392 599 mt prob & poss (undil) at 11.72% Zn, 36.24 g/t Ag to 1,500' ***plus*** 38 982 mt at 2.92% Cu at 4,000'L ***and*** 158 447 prob (dil) at 12.06% Zn and 39 g/t Ag to 475 m ***1987***<br>***(ii) Normetal tailings***: 5 864 807 mt at 0.18% Cu, 0.95% Pb, 1.34% Zn, 0.35 g/t Au, 19.26 g/t Ag ***1987***<br>(CMH 1989–90, p343) | Planned to start mining late 1989 of 69,000 at 11% Zn in order to earn enough for further dev. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 327 | ROLLMAC<br>First Int’l Standard Mng L<br>32 E/3<br>49°00.9’ 79°07.0’ | Au in free state, within a qtz vein zone, 2’–6’ wide, in granitic rocks. | **Late–1920s**: discovery, trenching, 45’ shaft.<br>**1954, 1958, 1964, 1975**: resampling shaft and trenches.<br>**1968, 1975, 1979**: geoph surveys.<br>**1979–80**: dd.<br>**1975, 1980**: shipped 87.8 t bulk samples and dump are at 0.40 oz/t Au, 2.71 oz/t Ag.<br>**1980–81**: spiral decline extended 1,443’ with 2,019’ x–cuts and subdrifts; bulk sampling, dd; shipped 2,987 at 0.257 oz/t Au to Louvem mill; workings then flooded.<br>**1983**: 100 t/d mill erected.<br>**1984**: mng and milling; ceased Nov.<br>**1988**: mag, VLF EM, dd. | Spec: 39,600 at 0.40 oz/t Au ***1981 plus*** 4,000 at 0.25 oz/t Au in stockpile ***1981***<br>(Intl Standard Res L, VSE FS 13/86) | |
| QUE. 328 | CONS NORTHERN EXPLORATION (KELLY–DESMOND)<br>Explo–Zinc Inc<br>32 E/8<br>49°26.1’ 78°19.9’ | Py, sph, cp in a rhyolite breccia. | **1962**: mag–EM surveys, trenching.<br>**1963–64**: mag–EM surveys, dd, discovery.<br>**1964–66**: shaft sunk 1,286’ with 5 levels, lateral headings, u/g dd.<br>**1969**: shaft dewatered, drifting on 1,150’ level, dd.<br>**1975**: dewatered.<br>**1976**: geoph, dd.<br>**1978–79**: geoph, dd.<br>**1988**: mag, EM, dd. | 1,099,110 at 6.95% Zn, 0.73% Cu, 1 oz/t Ag to 900’ ***1965***<br>(CMH 1979–80, p 108)<br>**or** 358,927 mineable at 7.46% Zn, 0.49% Cu, 0.88 oz/t Ag<br>(CMH 1985–86, p 362) | Under a 50% int option by Expln Vent d’Or Inc since 1987. |

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| QUE. 329 | JOUTEL COPPER<br>Joutel Res L<br>32 E/8<br>49°27.2' 78°21.2' | Massive to disseminated sulphides (py, po, cp, sph) in several cp–rich lenses and one sph–rich lens, in rhyolite. Probable origin was by volcanic exhalation, with subsequent remobilization of sulphides along shears. | **1959–61**: mag and EM surveys, dd.<br>**1963–65**: shaft sunk 1,075' with 2 levels, surface and u/g dd.<br>**1967–75**: shipped 1,400,000 at 2.16% Cu and 410,000 at 8.88% Zn to Mines de Poirier mill.<br>**1980**: dd.<br>**1982**: EM.<br>**1984**: OB dd. | ***(i) Copper zone***: 37,300 at 1.8% Cu<br>***(ii) Zinc zone***: 29,500 at 6.1% Zn<br>***1975***<br>(Que DP–346(v), pt E, p 17, 1976) | The mine area is said to have been thoroughly investigated leaving little chance of finding more ore. |
| QUE. 330 | POIRIER MINE<br>Bonanza Metals Inc<br>32 E/8<br>49°26.6' 78°23.3' | Volcanogenic stratabound sulphide (po, py, cp, sph) deposit in rhyolite, comprised of massive to disseminated sulphide lenses, some cp–rich, others sph–rich. | **1959–60**: airborne and ground mag–EM surveys, dd.<br>**1962**: dd.<br>**1963, 1964, 1968**: shaft sunk 2,850' with 18 levels.<br>**1965–75**: prod 4,700,000 at 2.22% Cu and 750,000 at 5.58% Zn and 0.33% Cu. | ***(i) Copper orebodies***:<br>752,143 proven at 2.22% Cu ***and*** 90,000 prob at 2.02% Cu<br>***(ii) Zinc orebodies***:<br>490,000 proven at 11.2% Zn ***and*** 300,000 prob at 9.2% Zn<br>***1975***<br>(Que DP–346(v), pt E, p 16, 1976) | The mill and surface plant were sold in 1976 to Selco Mng Corp L.<br>Reopening of the mine would be likely with improvement of metal prices.<br>Ress. Min. Forbex Inc has an option to earn 50% int in the property. |
| QUE. 331 | DOUAY GOLD<br>Inco Gold Inc<br>Soc d'Expl Min Vior Inc<br>& Cambior Inc<br>32 E/9<br>49°31.8' 78°06.2' | Gold with py occur in the exhalite horizon with or without graphite between a pyritic chert and a pyritic volcanoclast. The sandstone horizon overlies exhalite horizon. | **1978–83**: follow–up of INPUT, dd.<br>**1986–88**: dd. | 557 000 mt at 7.8 g/t Au<br>***1987***<br>(Que DV 88–01, p 87, 1988) | |

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| QUE. 332 | ESTRADES (GOLDEN HOPE)<br>Golden Gp Expln Inc (60%) &<br>Golden Hope Res Inc (40%)<br>32 E/10<br>49°35.2' 78°51.4' | Mass sulphs in a stratabound steep zone between qtz–sericite schist (HW) and volcanoclastic sed (FW). | **1976–77**: ground mag and EM.<br>**1985–89**: mag, EM, OBd, dd. | 2,268,000 geol res at 0.12 oz/t Au, 3.59 oz/t Ag, 1.02% Cu, 7.71% Zn in Main, Central and East zones, open to depth, ***incl*** 1,252,000 mineable at 0.15 oz/t Au, 4.15 oz/t Ag, 0.92% Cu, 8.93% Zn in Main zone to 1,300' ***1988*** (Breakwater Res L, 1988 AR) | Located 15 mi east of Mines Casa Berardi.<br>Breakwater Res L can earn 20% int by completing an exploration and engineering program and a feasibiltiy study in 1989, and another 50% int by financing the property to production by mid–1992. |
| QUE. 333 | MINES CASA BERARDI (GOLDEN POND)<br>Inco Gold Inc &<br>Golden Knight Res Inc<br>32 E/11<br>49°34.3' 79°16.8' | Gold in steeply plunging silica–enriched shears at acute angles to bedding of enclosing mudstones, and siltstones. The zone is 1,000' wide and more than 3 mi long. | **1966 and 1969**: airborne geoph surveys.<br>**1974–75**: ground geoph surveys.<br>**1981**: discovery, ddh.<br>**1981–85**: geoph, dd.<br>**1985–88**: decline sunk on East zone, mill erected near portal.<br>**1987–89**: ramp sunk on West zone, u/g dd and bulk sampling. | 11,680,000 at 0.22 oz/t Au in Main–Domex, East and West zones ***1988*** (GCNL 10/06/88) ***including*** mineable: 2.6 million at 0.26 oz/t Au in East zone and 2.2 million at 0.22 oz/t in West zone ***21/12/88*** (CMH 1989–90, p 199) | Prod from East zone started in 1988. Startup from West Zone is scheduled for 1990. |
| QUE. 334 | PHELPS DODGE – LA GAUCHETIÈRE TP<br>Noranda Inc<br>32 E/16<br>49°45.9' 78°10.0' | Probably a stratiform volcanogenic sulphide deposit. | **Pre–1973**: airborne and ground geophysics.<br>**1974**: dd.<br>**1976–77**: preparations to sink a shaft and adit.<br>**1984**: dd. | Dd–ind: 1,700,000 at 1.1% Cu, 4.9% Zn, minor Ag ***1979*** (Noranda ML, 1979 AR) | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 335 | LABONTÉ<br>Les Mines Morono Ltée<br>32 F/2<br>49°01.0' 76°40.8' | Gold in qtz veins in a shear cutting across a granite–volcanic contact. | **1949**: trenching and sampling of North and South zones.<br>**1966**: some work on North zone.<br>**1972**: EM survey.<br>**1973–74**: dd.<br>**1986–88**: geoph, dd. | ***(i) No. 1***: 396,837 prob at 0.094 oz/t Au ***and*** 441,307 at 0.095 oz/t Au<br>***(ii) No. 2***: 106,068 prob at 0.112 oz/t Au ***and*** 84,549 poss at 0.110 oz/tAu<br>***(iii) No. 3***: 59,990 prob at 0.245 oz/t Au ***and*** 82,621 poss at 0.239 oz/t Au<br>***1988***<br>(Les Affaires 21/05/88) | |
| QUE. 336 | GREVET B<br>Serem Que Inc<br>32 F/2<br>49°14' 76°45' | Stratabound massive sulphide deposit. | **1978–83**: geoph, dd. | 504 000 mt at 9.37% Zn, 0.59% Cu, 22.20 g/t Ag<br>***1989***<br>(VSM Expln Inc, release 06/89) | |
| QUE. 337 | GREVET M<br>Serem Que Inc<br>32 F/2<br>49°14.6' 76°40.2' | Volcano–exhalative mass sulph deposit in pyroclastics. | **1976**: dd, disc.<br>**1989**: dd. | Prob & poss: 2 241 225 mt at 8.79% Zn, 0.45% Cu, 0.21% Pb, 43.60 g/t Ag, 218 ppb Au ***1989***<br>(VSM Expln Inc, release 06/89) | Chances of doubling the resources are good. The M deposit is 2 km NW of Grevet B. Both are under a 50% int option by VSM Expln Inc. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 338 | FLORDIN<br>Bachelor Lake GM Inc & Cambior Inc<br>32 F/7<br>49°18.3′ 76°55.0′ | Qtz veins and vein zones, containing some pyrite and erratically distributed free gold occur in volcanic flows and tuffs, along shears, over a strike distance of 2 mi. | **1935–36**: discovery, trenching, sampling, dd.<br>**1939–40**: surface work, dd, shaft sunk 375′ on the Cartwright vein with 900′ lateral advance on 2 levels.<br>**1964**: EM survey.<br>**1981–82**: dd.<br>**1986–87**: ramp sunk to 150′ L, drifting and u/g dd on Main and assoc veins.<br>**1988–89**: u/g dev, bulk sampling. | ***(i) Four veins (excl Cartwright vein)***: 898,943 geol res at 0.148 oz/t Au ***1988*** (NM 5/09/88)<br>***(ii) Cartwright vein***: 82 000 mt at 10.5 g/t Au (Ress Macamic Inc, Prospectus, 30/10/85) | By a 1988 agreement Cambior ceded its int in Cartwright and Main veins (only) to Bachelor L in return for future royalties, provided that Bachelor L placed these zones in prod within 5 years. |
| QUE. 339 | LAKE ROSE<br>Ress Min Canaco Inc<br>32 F/7<br>49°22.8′ 76°50.0′ | Discontinuous auriferous qtz veins and lenses in shear zone in Archean volcanics. | **1934**: discovery.<br>**1936–38**: drove adit and winze with two levels. Milled 5,374 at 0.636 oz/t.<br>**1975**: 4 ddh.<br>**1982**: mag, EM, geochem.<br>**1985–86**: dd, mag, HEM, geochem.<br>**1987**: bulk sampling. | ***(i) Vein A***: 140′ x 2.7′ at 1.37 oz/t Au<br>***(ii) Vein B***: 120′ x 2.3′ at 0.45 oz/t Au<br>***(iii) Vein 3***: 62′ x 1.0′ at 4.0 oz/t Au<br>(Ress Min Eider Inc, 1985 Prospectus)<br>***or*** 200–300 000 mt at 6.86 g/t Au<br>(Finance 6/02/86) | A 6,000–ton bulk sample milled in 1987 had a recovered grade of 0.075 oz/t Au. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 340 | BACHELOR LAKE<br>Bachelor Lake GM Inc<br>32 F/8<br>49°29.5' 76°08.6' | Three principal Au-bearing quartz veins cut the O'Brien granite stock and the adjacent volcanics. | **1946**: disc, tr.<br>**1947–49**: dd.<br>**1962–63**: 1,111' shaft, u/g and surf dd.<br>**1965**: IP survey, dd.<br>**1972**: dd.<br>**1973–75**: u/g dev on 7 Ls, bulk sampling.<br>**1981**: preprod dev, 500 ton mill erected.<br>**1982–89**: prod 890,340 at 0.146 oz/t Au (to end 1988); shaft deepened to 1,846' in 1986–87 with 5 new Ls. | 273,800 proven and prob at 0.18 oz/t Au, 57,100 poss at 0.17 oz/t, 597,000 inf at 0.16 oz/t *or* total 927,900 at 0.16 oz/t Au (cut and 20% dil) ***31/12/88***<br>(Bachelor Lake GM Inc, 1988 AR) | Production was suspended and the mine placed on care and maintenance in August 1989, pending improvement in the price of gold. |
| QUE. 341 | CERTAC (LAC CÉRÉ)<br>Expln Orbite VSPA Inc<br>32 F/8<br>49°24.6' 76°04.5' | Ms to ds py, cp lenses in a small body of granite intruding volcanics. | **1949**: pits.<br>**1951**: pits, SP survey.<br>**1953**: dd.<br>**1962**: mag–EM survey.<br>**1965**: mag–EM survey, dd.<br>**1976**: surf bulk sampling.<br>**1977–78**: dd.<br>**1979**: 250–ton mill erected.<br>**1980**: ramp advanced 76 m, 15,000 tons treated.<br>**1984–85**: VLF EM, IP, mag, dd.<br>**1987–88**: dd. | 492,944 at 0.5–1.0% Cu, 0.18 oz/t Ag, 0.08 oz/t Au ***1978***<br>(WM February 1980) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 342 | CONIAGAS MINE<br>Minnova Inc (60%)<br>Phoenix GML (40%)<br>32 F/8<br>49°29.9′ 76°09.8′ | Massive to disseminated py, sph, gal in stratiform lenses within pyroclastics, probably derived by volcanic exhalation. | **1947**: discovery, trenching, dd.<br>**1948–51**: mag survey, dd.<br>**1956–58**: shaft sunk 1,368′ with 8 levels, 3,841′ lateral work, dd.<br>**1960**: shaft dewatered, construction of prod facilities.<br>**1961–67**: prod 718,000 at 10.8% Zn, 1.1% Pb, 5.3 oz/t Ag.<br>**1974–75**: experimental bacterial leaching of tailings.<br>**1976**: dd.<br>**1979–81**: dd. | 84,330 positive at 5.91% Zn, 1.62 oz/t Ag; 79,000 prob at 4.49% Zn, 2.27 oz/t Ag ***and*** 85,072 tailings at 2.2% Zn, 3.15 oz/t Ag ***1967***<br>(The Coniagas ML, 1967 AR) |  |
| QUE. 343 | HEWFRAN<br>Aur Res Inc<br>32 F/8<br>49°29.9′ 76°09.0′ | East and West zones are gold-bearing segments of the same zone separated by 500′ of low grade. The East zone is the west extension of Bachelor mine's main zone. The containing zone is 10–30′ wide and includes quartz veinlets. | **1946**: disc, tr.<br>**1948**: dd.<br>**1974**: geoph, dd.<br>**1983**: mag, EM.<br>**1984**: dd.<br>**1986–89**: drives extended into property from two Ls of the Bachelor Lake mine, dd, bulk sampling. | ***(i) East***: 144,000 proven & prob mineable at 0.18 oz/t Au (dil) between 900′ and 1,500′ ***1988***<br>(Aur Res Inc, 1988 AR)<br>***(ii) West***: 400,000 at 0.18 oz/t Au between 750′ and 1,250′<br>(Aur Res Inc, 1st Q rept, 1989) | As a result of the suspension of mining and placing on standby basis of the Bachelor Lake mine in August 1989, the u/g dev of the Hewfran zones was placed on hold. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 344 | LE TAC<br>J J Martel<br>32 F/8<br>49°26.8' 76°09.5' | Py, po, cp, sph disseminated in pyroclastics. Probably volcanogenic. | **1949**: trenching and sampling.<br>**1952–53**: dd.<br>**1956**: mag and EM surveys, dd.<br>**1970**: EM survey.<br>**1972–73**: EM and IP surveys, dd.<br>**1987**: geochem, IP, dd. | ***(i) Empire No 3 (A zone)***: 260,000 at 3% Zn to 400'<br>***(ii) Empire No 3 west (A west zone)***: 63,000 at 1.40% Cu, 0.92 oz/t Ag ***plus*** 33,000 at 2.50% Zn<br>***1952***<br>(Que SP–2, pp 168–169, 1967)<br>***(iii) Soma–Alta (E zone)***: 35,000 dd–ind at 2.7% Zn ***plus*** minor Au, Ag ***1953***<br>(Que GM–2574, 1954) | |
| QUE. 345 | NICOBI LAKE<br>(MT PINCOURT)<br>Finor Expln Inc<br>32 F/8<br>49°18.1' 76°05.8' | Py, po, cp, pn in disseminated grains in gabbro. | **1956**: prospecting.<br>**1959**: airborne and ground mag and EM surveys, dd.<br>**1966–67**: IP survey, dd.<br>**1975**: re–evaluation by Noranda.<br>**1984**: dd. | 1,805,213 at 0.467% Ni, 0.255% Cu ***1975***<br>(Que DP–346(v), pt C, p 22, 1976) | |
| QUE. 346 | ALLARD RIVER<br>Jack Stoch<br>32 F/12<br>49°36.5' 77°56.1' | Disseminated py, po, cp, gal in schists derived from either or both pyroclastics and sediments. Mineralization is in a pipe–like zone, with a 225' by 150' cross–section, extending to at least 550' depth. | **1946, 1956–58, 1970**: dd. | 495,000 at 0.75% Cu ***1970***<br>(NM 25/07/70) | Under option by Vior Inc. |
| QUE. 347 | LYNX (OBASKA)<br>Noranda Inc<br>32 F/12<br>49°38.8' 77°43.3' | Massive and disseminated sulphides in felsic pyroclastics. Probably volcanogenic. | **1959**: mag and EM surveys, dd.<br>**1961, 1965, 1974**: dd. | Dd–ind: 225,000 at 1.60% Cu, 0.35% Zn plus Au–Ag ***1965***<br>(NM 2/06/66) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 348 | MATTAGAMI LAKE<br>Ni–Cu<br>Noranda Inc<br>32 F/12<br>49°43.3′ 77°43.0′ | Disseminated Ni–Cu in an altered intrusive peridotite body, at least 2,000′ wide, occurring north of the pyroclastics containing the Zn–Cu orebodies. | Drilling in 1968 and presumably before and after. Mining of the neighbouring Zn–Cu orebodies was carried on between 1963 and 1986. | 3,000,000 at 0.80% Ni–Cu ***1968*** (Mattagami Lake ML, 1968 AR)<br>***or*** 546,970 at 0.39% Ni, 0.28% Cu (NM 21/03/74) | Accessible from u/g workings of the Mattagami mine. |
| QUE. 349 | VEZZA<br>Dundee–Palliser Res Inc,<br>North Amer. Rare Metals L<br>32 F/12<br>49°32′02″ 77°46′05″ | Gold occurs in the upper part of an altered and deformed sedimentary rock sequence in contact with volcanics. | **1945**: mag, EM, dd.<br>**1986–89**: geoph, dd. | Prob & poss: 2,000,000 at 0.16 oz/t Au (0.10 oz/t cutoff) ***1988*** (MVP Capital Corp, Interim Rept, 30/06/89) | Agnico Eagle ML optioned the property in 1989. |
| QUE. 350 | BELL CHANNEL<br>Noranda Inc<br>32 F/13<br>49°46.2′ 77°37.4′ | Volcanogenic, stratiform, massive sulphide (py, po, cp, sph) deposit, 5–40′ wide, 300′ long and 260′ deep; in tuffs. | **1957**: mag and EM surveys.<br>**1960–61**: dd.<br>**1973–75**: dd.<br>**1984, 86, 88**: dd. | 90,500 at 1.95% Cu, 0.57% Zn ***1961*** (Que PR 527, p 12, 1964) | The deposit is located off an island under Bell River, near the LG–2 road bridge, 1 mi N of the town of Matagami. |
| QUE. 351 | DUNLOP BAY<br>Explns Mins du Nord L<br>32 F/13<br>49°48.6′ 77°34.2′ | Gold–bearing qtz veins cut amphibolitized lavas and pyroclastics along the contact with the Dunlop granitic stock. | **1958–59**: mag, SP, IP surveys.<br>**1962–63**: disc, tr.<br>**1970**: mag, Turam, dd.<br>**1981**: dd.<br>**1982**: channel sampling.<br>**1986–88**: dd, mag, VLF, IP, bulk sampling. | 12 881 mt at 5.76 g/t Au to 15.2 m in Edith, Rolande and Marcelle veins ***1982*** (Explns Mins du Nord L, 1985 prospectus)<br>***or*** 51,257 poss at 0.198 oz/t Au (20% dil) in Marcelle vein ***1987*** (Explns Mins du Nord, release 3/06/87) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 352 | GARON LAKE<br>Noranda Inc<br>32 F/13<br>49°46.4' 77°34.1' | Stratiform, volcanogenic sulphide (po, py, cp, sph) deposit, comprised of three main lenses, in felsic tuffs. | **1956–57**: airborne and ground mag–EM surveys.<br>**1958–59**: dd.<br>**1966–67**: mag and EM surveys, dd.<br>**1970**: inclined ramp with u/g dev.<br>**1973–75**: shipped 515,000 at 2.22% Zn, 1.45% Cu to Orchan mill.<br>**1981–82**: dd.<br>**1984**: dd. | Dd–ind: 50,000 at unstated grade of Zn–Cu–Ag–Au ***1975***<br>(Orchan ML, 1975 AR) | Most of the tonnage is what remains below 250' level in A and C zones. |
| QUE. 353 | NEW HOSCO<br>Noranda Inc<br>32 F/13<br>49°47.4' 77°50.1' | Volcanogenic sulphide (py, po, cp, sph) deposit in pyroclastics. The main zone is 1,000' long, 200'–300' wide and at least 1,000' deep. A central cp zone is enveloped by iron sulphides, with sph concentrated on the HW side. | **1958–60**: ground mag, EM, gravity surveys, dd.<br>**1962**: shaft sunk 1,060' with 9 levels.<br>**1963–70**: shipped 2,000,000 at 1.18% Zn, 1.41% Cu to Orchan mill.<br>**1984**: dd. | 250,000 at 1% Cu ***1970***<br>(Que Fiche: V–Dan–1, 1975) |  |
| QUE. 354 | GALENA VEIN<br>Falconbridge L<br>32 F/16<br>49°46.3' 76°02.1' | A vertical qtz vein, 12"–15" wide, containing some gal and visible gold, within an amphibolitized volcanic inlier in gabbro. | **1948–49**: discovery, trenching, sampling, mag survey.<br>**1950**: dd.<br>**1973**: bulk sampling. | 355' x 2.12' at 0.37 oz/t Au ***1973***<br>(NM 09/05/74) | Grade determined by analysis of a 5–ton bulk sample of the vein, stated to be representative of the given surface dimensions. |
| QUE. 355 | LAC ROULEAU<br>Falconbridge L (51%)<br>Beaufield Res (49%)<br>32 G/4<br>49°01.6' 75°35.6' | Gold is associated with qtz in a ENE shear in volcs. | **1937**: first Au disc, tr, dd.<br>**1946**: surf work.<br>**1984**: mag, VLF, HEM, dd.<br>**1987–88**: EM, dd. | Numerous good Au intersections in zone 18: 820' x 130' x 1,200' depth ***1987***<br>(NM 28/12/87) | Discovered by dd in 1987. Intersections included 0.222 oz/t across 24.3'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 356 | MESTON LAKE<br>Campbell Res Inc<br>32 G/7<br>49°28.7′ 74°30.1′ | Gold in qtz–tourmaline veins filling fractures in altered sericitic granite. | **1951**: dd.<br>**1952**: mag survey, dd.<br>**1973–74**: dd.<br>**1974**: 1,000′ decline driven, cyanidation tests on bulk sample.<br>**1977–78**: mag–EM surveys, dd.<br>**1981**: dd. | 1,350,000 at 0.15 oz/t Au ***1974***<br>(NM 28/03/74) | Now part of the Joe Mann mine property. |
| QUE. 357 | PHILIBERT<br>Soquem & Cambior<br>32 G/7<br>49°29.1′ 74°34.7′ | Two gold–bearing lenses are 260′ apart in a silicified structure in volcanics, traced at least 10,000′. | **1984–89**: mag, EM, IP, dd. | Mineral inventory: 525 000 mt at 6.13 g/t Au in 2 parallel lenses ***1988***<br>(Soquem, 1988 AR) | The gold zone was discovered in 1985 by tracing gold–bearing erratics to source. |
| QUE. 358 | CURRIE–MILLS (JAMES LAKE)<br>Campbell Res Inc (50%),<br>Cambior Inc (25%),<br>Ress Veinor Inc (25%)<br>32 G/8<br>49°29.9′ 74°24.0′ | Two qtz veins in parallel shears within an amphibolitized gabbro sill, both traced 1,000′. The veins carry c 0.25% Cu in addition to Au. | **1951**: discovery, trenching.<br>**1952, 1954**: mag–EM surveys.<br>**1955–56, 1960, 1980–81**: dd.<br>**1987**: IP, mag, VLF, dd. | ***(i) North***: ind 62 632 mt at 4.25 g/t Au<br>***(ii) South***: ind 105 285 mt at 2.06 g/t Au ***1981***<br>(Sullivan Ms Inc, 1985 AR) |  |
| QUE. 359 | WINDY LAKE (LAC DES VENTS)<br>Barexor Mnrls Inc<br>32 G/10<br>49°30.1′ 74°54.2′ | Heavy to disseminated py, po, cp in pyroclastics along the contact with a mafic sill. | **1947–48**: mag and resistivity surveys, trenching, dd.<br>**1956**: mag survey, trench sampling, dd.<br>**1972**: EM survey, dd. | 15,400 at 1.88% Cu in 2 shoots ***1956***<br>(Que SP–2, p 161, 1967) | Cominco optioned and then dropped the property in 1984. |
| QUE. 360 | GAND NO 1<br>Greenstone Res L<br>32 G/12<br>49°36.7′ 75°54.2′ | Several Au–bearing qtz–carb–py veins in or near volcanics–gabbro contact. | **1960**: dd, discovery.<br>**1976–83**: geoph, geochem, dd.<br>**1988**: dd. | 115,000 at 0.133 oz/t Au to 350′ in 'A' vein ***1982***<br>(Campbell Res Inc, 1983 AR) | Adjacent west to Shortt Lake mine property.<br>Under a 50% int option since 1987 by Algonquin Mnrls Inc which was to test the deposit at depth. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 361 | LA RIBOURDE–SAUSSURE<br>Umex Inc<br>32 G/13<br>49°49.0′ 75°31.4′ | Stratiform, massive py–po with sph and cp in meta-sedimentary sericitic and graphitic schists. | **1969–70**: airborne and ground mag and EM; dd.<br>**1973**: gravity survey.<br>**1974**: dd. | Dd–ind: 450,000 at 1.35% Cu, 2.73% Zn, 1.24 oz/t Ag, minor Au ***1974***<br>(Umex 1977, written commun to A G Sozanski) | Nearest potential custom mill at Chapais (Minnova Inc), 30 mi by road. |
| QUE. 362 | LAURA LAKE<br>Minnova Inc (51%)<br>Oasis Res Inc (24.5%)<br>Ms Messeguay Inc (24.5%)<br>32 G/15<br>49°47.1′ 74°46.0′ | Three parallel shears containing sulphides and gold occur close together in mafic volcs. | **1945–47**: mag, EM, dd.<br>**1955–56**: dd.<br>**1972**: dd.<br>**1977**: mag survey.<br>**1985–87**: dd.<br>**1988**: 1,850′ decline sunk, dd. | 180,000 at 0.17 oz/t Au<br>(Finance 26/10/87) |  |
| QUE. 363 | OPEMISCA EXPLORERS<br>Minnova Inc<br>32 G/15<br>49°45.5′ 74°50.8′ | A sub–vertical zone of massive, very fine–grained py and some po, with minor cp, sph, in felsic tuffs, traced for a 4,800′ length, over widths of 30–125′. Probably syngenetic, volcano–exhalative, deposit. | **1952–56**: mag, EM and resistivity surveys, dd.<br>**1977**: EM. | 10,000,000 at 70% py–po to 1,000′ ***1956***<br>(Que Map 1686, 1970) | A chemical analysis of 150′ of continuous drill core reportedly showed the sulphides to contain 41.22% Fe and 45.51% S. |
| QUE. 364 | SCOTT LAKE<br>Greenstone Res L<br>32 G/15<br>49°51′52″ 74°37′47″ | Volcanogenic banded, massive to disseminated sulphides (py, sph, cp, gal) in tuff at the contact with granodiorite porphyry. 500′ x 3–20′ x 1,000′ deep, thinning with depth and west, cut off by a fault at east end; extension not found by dd in 1978. | **1976**: INPUT, follow–up ground EM.<br>**1976–78**: dd.<br>**1981–82, 88**: geoph, dd. | 705 000 mt at 6.87% Zn, 0.91% Cu, 0.3 g/t Au, 11.65 g/t Ag ***1988***<br>(Que DV 89–01, p 92, 1989) | Syngold Explns Inc optioned 50% int in 1987 over 3 years.<br>More drilling was planned for 1989 to test for depth extension of the deposit. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 365 | ASBESTOS ISLAND<br>Greenstone Res L<br>32 G/16<br>49°57.9′ 74°09.2′ | Cross–fibre and slip–fibre chrysotile veinlets in serpentinized dunite. No 1 zone has surface dimensions of 500′ by 400′. | **1904**: discovery, trenching.<br>**1954**: mag survey, dd.<br>**1956–57**: stripping, trenching, sampling, dd.<br>**1960–63**: surface exploration. | 6,500,000 at 7.22% Asb in No 1 zone ***plus*** 3,000,000 at unstated Asb grade in another zone ***1957***<br>(NM 7/03/57, 10/04/58) |  |
| QUE. 366 | BATEMAN BAY<br>Bateman Bay Mng C<br>32 G/16<br>49°54.2′ 74°14.8′ | Disseminated sulphides in lenses in fracture zones in anorthosite of the Lac Doré complex. The two principal zones are 3,000′ apart. | **1936**: EM survey, dd.<br>**1955–57**: mag, resistivity and EM surveys, dd.<br>**1957–60**: shaft sunk with 3 levels, u/g dev, surface and u/g dd.<br>**1959–60**: shipped 15,000 at 2.0% Cu, 0.46 oz/t Ag, 0.07 oz/t Au to Merrill mill.<br>**1967–70**: drive extended on Jaculet mine's 900′ level into Bateman whose shaft was extended to meet it, dd.<br>**1970, 1977**: minor extraction, mine flooded in 1977. | ***(i) Mine area***: 50,000 at 1.61% Cu, 0.025 oz/t Au ***1970***<br>(Patino Mng Corp, 1970 AR)<br>***(ii) C zone***: 183,200 at 1.65% Cu, 0.048 oz/t Au, 0.187 oz/t Ag ***1957***<br>(Que GR 95, p 68, 1960) |  |
| QUE. 367 | BRUNEAU<br>Bruneau Mng Corp<br>32 G/16<br>49°56.1′ 74°15.0′ | Three principal cp–rich veins with, py, po, qtz and carb; in mafic pillow lavas and felsic pyroclastics. 'A' vein was 500′ long, 5′ wide and 400′ deep. | **1947**: dd.<br>**1951–52**: mag and resistivity surveys, dd.<br>**1960–65**: EM survey, dd, u/g workings from 2 adits.<br>**1966–68**: shipped 69,000 at 1.52% Cu, 0.02 oz/t Au to Merrill and Campbell mills.<br>**1975**: geoph surveys, dd.<br>**1979–81**: dd.<br>**1984**: dd. | ***(i) Copper***: 36,000 blocked out at 1.47% Cu, 0.02 oz/t Au ***1968***<br>(Bruneau Mng Corp, 1970 AR)<br>***(ii) Gold***: 220′ x 4′ at 0.39 oz/t Au ind by 3 holes above lower adit level ***pre–1970 ?***<br>(NM 18/10/79) | Held under a 25–year lease since 1975 by Muscocho Expls L. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 368 | CHIB–KAYRAND<br>Campbell Res Inc<br>32 G/16<br>49°51.8' 74°20.5' | Cp, po, py occur in and along a qtz diorite dyke intruding a shear in anorthosite breccia of the Lac Doré complex. | **1944–50, 1956–57, 1959**: dd, mag and EM surveys.<br>**1965–75**: prod c 150,000 at 1.3% Cu via u/g working of Merrill's and Campbell Original's mines. | 12,252 proven at 2.29% Cu, 0.003 oz/t Au ***1980***<br>(Campbell Chibougamau ML, note to Que 26/07/80) | Chib–Kayrand's workings were allowed to flood early 1978 along with those of other mines of Original Mine Division. |
| QUE. 369 | COPPER CLIFF MINE<br>Westminer Can L<br>32 G/16<br>49°54.1' 74°18.2' | Cp in massive stringers, mainly in walls of dykes intruding shears in anorthosite of the Lac Doré complex. Two main zones were mined, 2,000' apart, the Copper Cliff and North Siderite. | **1929**: discovery, trenching, dd.<br>**1948–53**: dd.<br>**1955–56, 1968–69**: shaft to 1,730' with 7 levels.<br>**1970–74**: shipped 953,000 at 1.6% Cu to Copper Rand mill.<br>**1975**: mine flooded.<br>**1987–88**: dd. | 62,000 at 1% Cu, 0.025 oz/t Au ***1974***<br>(Patino NV, 1974 AR) |  |
| QUE. 370 | COPPER CLIFF SIDERITE<br>Westminer Can L<br>32 G/16<br>49°54.1' 74°19.5' | An alteration zone along a dyke, in a fracture in gabbro of the Lac Doré complex, contains massive siderite over a length in excess of 1,000' by 10'–125'. The siderite contains blebs and veins of cp, py. | **1950**: resistivity survey.<br>**1952–53, 1961**: dd. | 520,000 at 1.46% Cu ***or*** 2,000,000 at 31.3% Fe and Mn, 1% Cu ***1953***<br>(Que Fiche: C–McK–17, 1966) |  |
| QUE. 371 | CORNER BAY<br>Corner Bay Expls L<br>32 G/16, 9<br>49°45.0' 74°14.5' | Cp in a fracture zone in anorthosite of the Doré Lake complex.<br>Initial holes cut the zone at 400'–1,000' vertical depths over a length of 2,000' and across 14' true width. | **1981**: discovery by dd of EM anomaly.<br>**1983–84**: dd.<br>**1986**: geoph.<br>**1988**: dd. | 1 500 000 mt at 4.0% Cu, 0.34 g/t Au, 13.71 g/t Ag ***1983***<br>(Que DV 85–02, p 82, 1985) | Prelim tests showed recoveries of 97% Cu, 55% Au and 85% Ag.<br>The company, and partners, Preussag Can L and 566351 Ontario L, were considering sinking a ramp in 1989 to test the deposit at 200 m and 300 m Ls. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 372 | DEVLIN<br>Campbell Res Inc<br>32 G/16<br>49°45.6′ 74°20.0′ | Cp, py, qtz, chlorite, epidote and calcite in a 8.5′ thick, gently dipping, zone of closely spaced fractures in the leucocratic core of a dioritic pluton. Deposit occurs between 150′ and 275′ depths. | **1972**: INPUT survey.<br>**1973**: ground EM.<br>**1974, 1976–78, 1981**: dd.<br>**1981**: decline sunk, test shipments.<br>**1982**: 15 533 mt at 1.78% Cu treated at Campbell's mill. | 1,400,000 at 2.25% Cu (Campbell Res Inc, 1983 AR)<br>***or*** 72,433 at 3.25% Cu, 0.006 oz/t Au ***1987***<br>(Campbell Res Inc, prospectus 9/11/87) | A 1987 feasibility study found the project not to be viable. |
| QUE. 373 | GRANDROY<br>Greenstone Res L<br>32 G/16<br>49°55.7′ 74°12.0′ | A small Archean porphyry-type deposit, consisting of a stockwork of veins, containing cp, py, mo, mag, with qtz and carb, in a stock of meta-tonalite. | **1946–47, 1952–53**: mag–EM surveys, dd.<br>**1966–67**: dd, resistivity and IP surveys.<br>**1967–68**: shipped 290,000 at 1.22% Cu, 0.019 oz/t Au from o/p to Campbell's mill.<br>**1970**: dd.<br>**1973–75**: mined u/g via a decline and shipped 99,000 to Campbell's mill.<br>**1981**: dd. | 125,280 proven at 1.64% Cu, 0.029 oz/t Au, ***and*** 11,045 prob at 2.21% Cu, 0.03 oz/t Au<br>***1978 ?***<br>(Campbell Chibougamau ML, note to Que 26/07/80) | The deposit contains about 0.1% Mo. The remaining tonnage is exploitable u/g. |
| QUE. 374 | GWILLIM GOLD<br>Greenstone Res L (50%),<br>Muscocho Expls L (25%),<br>Flanagan McAdam Res Inc (25%)<br>32 G/16<br>49°57′36″ 74°27′25″ | Au–qtz veins and vein systems are hosted by mafic volcs. | **1934–35**: disc, tr, dd.<br>**1945–46**: dd.<br>**1963–65**: geoph, dd.<br>**1973**: mag, EM, IP, dd.<br>**1974–75**: decline advanced 940′, bulk sampling.<br>**1979–81**: u/g dev.<br>**1981–84**: prod 244,000 at 0.143 oz/t Au.<br>**1984**: ramp driven 560′ on KOD zone.<br>**1986–88**: dd, ramp extended on KOD. | ***(i) Old mine***: 123,000 at 0.233 oz/t Au with additional potential<br>***(ii) KOD***: 216,000 at 0.334 oz/t Au open west and to depth<br>***1988***<br>(Greenstone Res L, 1988 AR) | A decision on production was expected in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 375 | GWILLIM LAKE MOP–II<br>Muscocho Expls L (43.3%),<br>Flanagan McAdam Res Inc (43.3%),<br>Noranda Inc (13.3%)<br>32 G/16<br>49°57.5' 74°25.0' | Three subparallel sulph zones in sheared and altered qtz–feldspar porphyry intrusive. | **1979, 81, 84, 86–87**: geoph, dd.<br>**1988**: ramp extended to 100 m L, u/g dd. | 226,800 at 0.31 oz/t Au ***1987***<br>(Muscocho Explns L, 1987 AR) |  |
| QUE. 376 | HEMATITE BAY<br>Westminer Can L<br>32 G/16<br>49°55.2' 74°11.8' | Py, cp, qtz–carb in a shear in agglomerate along a contact with anorthosite. | **1908**: discovery.<br>**1954–57**: geoph, dd. | 400,000 at 2.01% Cu ***1956***<br>(NM 24/04/58) | Located on the north side of Portage Island on the Portage mine property. |
| QUE. 377 | JACULET MINE<br>Westminer Can L<br>32 G/16<br>49°54.5' 74°16.4' | Two principal parallel zones of mineralization occur in shears in anorthosite of Lac Doré complex. Lenses of massive and disseminated py, cp are associated with dykes intrusive into the shears. | **1956–59**: dd, shaft sunk 707' with lateral work on 3 levels.<br>**1960–71, 1974, 1977**: shipped 1,200,000 at 1.92% Cu to Copper Rand mill; shaft deepened in 1963–64, 1971 to 1,762' opening 7 new levels, extensive lateral advances, dd. | 135,000 at 1.70% Cu, 0.025 oz/t Au to 1,200' ***Dec 1974***<br>(Patino NV, 1974 AR) | All recoverable broken ore (9,418 tons), materials and equipment were salvaged in 1977 and the mine was flooded in January 1978.<br>The estimated remaining tonnage was delisted from Patino's reported reserves in 1977. |
| QUE. 378 | KELLOGG (RINFRET)<br>Geotest Corp<br>32 G/16<br>49°49.4' 74°00.7' | Titaniferous magnetite interlayered with relatively barren layers of the mafic intrusive rocks of the Lac Doré complex. The main high–grade zone is 7,200' long and up to 3,000' wide. Other lenses occur within a strike length of 5 mi. | **1954**: aeromag survey by Dominion Gulf C.<br>**1955–56**: trenching, sampling, mag and SP surveys.<br>**1958**: dd.<br>**1966**: presence of V discovered by analysis.<br>**1970–76**: dd, bulk sampling, metallurgical and smelting tests.<br>**1979–80**: dd, tests. | 46 400 000 mt at 35.5% Fe, 9.79% $TiO_2$, 0.53% $V_2O_5$ to 100 m (in East deposit) ***or*** 89 000 000 mt (to 100 m in 3 deposits) ***1979***<br>(Soquem 1979–80 AR)<br>***or*** 25,000,000 at 8.46% $TiO_2$ and 1.13% $V_2O_5$ to 330'<br>(Expln Mirandor Inc, 1987 AR) | Plan was to eventually extract vanadium along with iron and titanium. Extractive research was funded in part by provincial and federal governments.<br>Tests gave a magnetic conc of 62.1% Fe, 9.25% $TiO_2$, 1.39% $V_2O_5$.<br>A 50% int option was acquired by Expln Mirandor Inc in 1988. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 379 | KOKKO CREEK<br>Campbell Res Inc<br>32 G/16<br>49°52.9′ 74°20.7′ | Cp, py, po occur principally along a qtz–feldspar–porphyry dyke intruding a fracture in anorthosite of Lac Doré complex. | **1906–07, 1929**: discovery, rock trenching, sampling.<br>**1951–52, 1956**: dd.<br>**1958**: drive extended from Campbell's Original mine's 400′ level. Kokko's shaft sunk 640′ with 5 levels in 1958 and 1966.<br>**1959–75**: prod c 700,000 at 2.6% Cu, a small portion from o/p; some ore also mined via Original mine's 850′ level. | 101,889 proven at 1.44% Cu, 0.006 oz/t Au, and 25,807 prob at 1.65% Cu, 0.006 oz/t Au ***1980***<br>(Campbell Chibougamau ML, note to Que 26/07/80) | Kokko Creek's u/g workings were flooded in early–1978. |
| QUE. 380 | LAC DORÉ<br>Westminer Can L<br>32 G/16<br>49°52.5′ 74°18.7′ | Mineralized lenses in a NW shear cutting anorthosite of the Lac Doré complex. | **1984**: IP, dd, disc.<br>**1986–88**: dd.<br>**1989**: dd from u/g. | 900 000 mt at 1.16% Cu, 4.5 g/t Au ***1988***<br>(Que DV 89–01, p 81, 1989)<br>***or*** 1.6 Mt at 1.5% Cu, 0.146 oz/t Au<br>(NM 2/10/89) | Located under the waters of Lac Doré, NE of Merrill Is. |
| QUE. 381 | MERRILL ISLAND<br>Campbell Res Inc<br>32 G/16<br>49°52.2′ 74°19.8′ | Several parallel fracture zones in anorthosite of the Lac Doré complex contain lenses of massive to disseminated py, cp, associated with dykes. | **1920**: discovery.<br>**1936, 1950–51**: dd.<br>**1952, 1955–57, 1961–62**: shaft sunk 2,300′ with 14 levels.<br>**1958–75, 1977**: prod c 2,600,000 at 1.6% Cu, half the tonnage being low–grade mined by o/p 1971–77. | 1,650,637 proven at 0.87% Cu, 0.003 oz/t Au, ***and*** 570,187 prob at 0.79% Cu, 0.003 oz/t Au ***1980***<br>(Campbell Chibougamau ML, note to Que 26/07/80) | Available by open–pit. |
| QUE. 382 | NEPTON BAY<br>Muscocho Expls L<br>32 G/16<br>49°54.2′ 74°03.2′ | Cp with py, po, mo in a shear within anorthosite of Lac Doré complex. | **1951**: discovery.<br>**1952–56**: trenching, mag–EM, dd.<br>**1969–71**: geoph surveys.<br>**1972, 1974, 1981**: geoph, dd. | 283,000 at 2.14% Cu ***1974 ?***<br>(NM 02/10/80) | Deposit also contains significant Au–Ag values. Located under the waters of Chibougamau Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 383 | NORBEAU MINE<br>Westminer Can L<br>32 G/16<br>49°57.5' 74°18.3' | Qtz veins in carb shears within the Bourbeau diorite sill. | **1929–30**: discovery, trenching.<br>**1933–34, 1939**: trenching, dd.<br>**1959–60**: dd, 1,000' adit.<br>**1962**: 200 t/d mill erected.<br>**1964–65**: shaft sunk 1,530', 10 Ls.<br>**1964–69**: prod 163,362 oz Au, 20,282 oz Ag from 419,029 milled.<br>**1980–81**: discovery of HW vein, trenching, dd.<br>**1981–82**: shaft dewatered.<br>**1982**: shipped 3,017 at 0.32 oz/t Au to Campbell mill.<br>**1986–87**: dd. | (i) ***Main vein (shaft)***: 43,409 at 0.23 oz/t Au in 18 stopes.<br>(ii) ***New, Sharpe & No 5 veins***: 1,545' x 9.6' at 0.17 oz/t Au<br>***1982***<br>(NM 7/10/82)<br>***or*** pot: 810,900 at 0.18 oz/t Au (all zones) ***1982***<br>(NM 16/12/82) |  |
| QUE. 384 | OBALSKI MINE<br>Greenstone Res L<br>32 G/16<br>49°52.2' 74°23.5' | Qtz veins and/or sulph lenses in shears and fractures within the Lac Doré intrusive complex. | **1928–29**: tr, dd.<br>**1936–37**: dd, shaft started.<br>**1939**: dd.<br>**1945–46**: shaft to 277', 2 Ls.<br>**1953–57**: mag, SP, dd.<br>**1963**: dd.<br>**1964–66**: u/g dev, shipped 89,000 at 1.28% Cu, 0.15 oz/t Au from 'A' vein.<br>**1972**: decline advanced 940' on 'G' vein, a little ore shipped.<br>**1982–85**: dd; 18,000 at 0.37 oz/t shipped from 'D' vein.<br>**1987–89**: dd. | ***(i) 'A' zone***: 190,000 at 1.68% Cu, 0.11 oz/t Au ***c 1985***<br>(Syngold Expln Inc, 1987 AR)<br>***(ii) 'D' zone***: 34,125 poss at 0.355 oz/t Au to 650' ***1986***<br>(Greenstone Res L, 1986 AR)<br>***(iii) 'G' zone***: 30,000 at 3.5% Cu, 0.086 oz/t Au to 200' ***1963***<br>(NM 4/04/63) | Syngold Expln Inc optioned a 50% int in the property in 1987.<br>Additional work was planned for 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 385 | QUE CHIBOUGAMAU (COPPER RAND #3)<br>Westminer Can L<br>32 G/16<br>49°52'18" 74°19'18" | Py, po, cp, sph and gal as stringers and massive to disseminated lenses in a N38°W brecciated and sheared fracture zone in anorthosite. The zone was traced 400' across 5'–20' widths to 1,000' depth. | **1950–51**: resistivity survey, 28,435' dd.<br>**1956–57**: shaft sunk 605', minor work on 3 levels.<br>**1986**: dd. | Dd–ind: 500,000 at 2.2% Cu, 1.2% Zn, 0.5 oz/t Ag ***1951***<br>(Que Fiche: C–Ob–6, 1966) | Patino had done further work in the 1960s, but no results have been disclosed. |
| QUE. 386 | QUEBEC CHIBOUGAMAU GOLDFIELDS<br>Campbell Res Inc (50%)<br>Holmer GML (50%)<br>32 G/16<br>49°53.2' 74°19.8' | Py, cp is associated with fine-grained basic dykes along shears in anorthosite of the Doré Lake complex. | **Pre–1930**: discovery, pits.<br>**1951**: dd.<br>**1955**: mag, EM, SP surveys.<br>**1955–56**: dd.<br>**1956–57**: shaft sunk 847' with 5 levels, u/g dd.<br>**1963–67**: under lease by Patino shipped 207,000 at 1.78% Cu to Copper Rand mill.<br>**1972–75**: surface and u/g dev and intermittent prod.<br>**1981–83**: dd.<br>**1988**: dd and sampling on 200' and 300' Ls. | 35,035 proven at 1.56% Cu, 0.054 oz/t Au ***1980***<br>(Campbell Chibougamau ML, note to Que 26/07/80)<br>***or*** 90 000 mt poss, to 240 m at unstated grade ***1988***<br>(Que DV 89–01, p 92, 1989) | The u/g workings are connected with those of Campbell's producing Cedar Bay mine. |
| QUE. 387 | T–GROUP<br>Campbell Res Inc<br>32 G/16<br>49°52.5' 74°15' (approx) | N/A. Minrl'n is prob in shears in anorthosite of the Doré Lake complex. | **c1985**: dd, disc. | 83,859 at 0.142 oz/t Au, 0.735% Cu ***c 1985***<br>(Greenstone Res L, VSE FS 3/87) | Prob located under the waters of Lake Chibougamau. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 388 | TACHÉ LAKE<br>Greenstone Res L<br>32 G/16<br>49°56.5′ 74°24.3′ | The two zones occur in pyroclastics at the contact with a serpentinized ultramafic sill. Massive to disseminated py, po, sph. Possibly of volcanic origin, with some subsequent remobilization. | **1929–30**: discovery of Berrigan, rock trenching, sampling, dd.<br>**1948, 1952–53**: dd on North and Berrigan zones.<br>**1956–57**: mag and resistivity surveys, dd.<br>**1965–66**: mag and EM surveys, dd.<br>**1968–69**: adit driven into North zone with 500′ advance, dd.<br>**1977**: dd in Berrigan zone.<br>**1981–82**: decline driven on North zone, dd, bulk sampling, metallurgical tests.<br>**1987**: dd.<br>**1988**: geoph. | ***(i) North zone***:<br>2,542,000 prob & poss at 0.055 oz/t Au, 3.31% Zn, ***incl*** 450,000 prob for o/p at 0.07 oz/t Au, 4.07% Zn, 0.64 oz/t Ag, 0.8% Pb to 400′ ***1987***<br>(Greenstone Res L, 1988 AR & NM 4/07/88)<br>***(ii) Berrigan zone***:<br>285,600 prob at 3.05% Zn, 0.017 oz/t Au ***1951***<br>(Que SP–2, p 188, 1967) | Prelim conventional flotation tests gave recoveries of 92% Zn, 88% Au, 90% Pb, 76% Ag.<br>Prelim feasibility est costs at **$42/ton** with net recoverable values at **$69/ton**. Prod was to start late 1989 or early 1990. |
| QUE. 389 | CRÉVIER<br>Cambior Inc<br>32 H/7, 10<br>49°29′ 72°45′ | A 9 mi by 5 mi alkaline complex has a carbonatite–biotite syenite core and a nepheline syenite inner ring, both structures containing zones of significant U, Cb, Ta, Zr, P concentration. | **1975**: discovery by follow–up of airborne rad anomaly.<br>**1976**: sampling.<br>**1979**: dd.<br>**1981–86**: pilot beneficiation and metallurgical studies. | Ind: 15 200 000 mt at 0.189% $Cb_2O_5$, 206 ppm $Ta_2O_5$; semi–ind: 17 750 000 mt at 0.186% $Cb_2O_5$, 197 ppm $Ta_2O_5$; inf: 29 000 000 mt at unstated grade; to 300 m ***1981***<br>(Soquem, 1981–82 AR) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 390 | ROBERGE LAKE<br>Flanagan McAdam Res Inc<br>32 H/13, G/16<br>49°58.4' 73°58.3' | Five deposits occur at intervals over 3 mi in the Roberge Lake Sill of metadunite and metaperidotite. Asbestos is predominantly slip–fibre with a small quantity of cross–fibre. | **1955–56**: trenching, sampling, dd.<br>**1961–65**: mag survey, dd, mill tests.<br>**1968**: shaft to 200' and 175' crosscut on C–D zone, bulk sampling and testing in pilot mill.<br>**1970**: dd.<br>**1972–73**: decline driven 1,000' in C–D zone, dd, bulk sampling and mill tests.<br>**1976–77**: dd. | ***(i) C–D zone***:<br>90,000,000 at 3.87% Asb<br>***1968***<br>***(ii) A, B, East D zones***:<br>86,371,000 at 3.55% Asb<br>***1965***<br>(CMH 1979–80, p 175) | The fibres are 4T, 5R, 6D and 7D groups and suitable for making asbestos cement, asbestos paper, friction materials and sheet packing.<br>Property was under option by Riocanex in 1970–78, but after extensive expln, tests and feasibility studies the option was dropped. |
| QUE. 391 | PERCH RIVER<br>McNickel Inc (50%)<br>32 I/5<br>50°20.5' 73°42.5' | Disseminated cp in qtz–carb veins in a graphitic horizon, a concordant fault plane within dolomites of the Mistassini Group. | **1967–71**: EM and soil geochem surveys, dd.<br>**1972**: inclined adit.<br>**1973**: bulk sample tested at the Merrill mill. | 566' x 7'–8' at 1.95% Cu<br>***1973***<br>(NM 27/06/74)<br>***or*** 300 000 mt at 1.0% Cu<br>(Que GM–34001, 1973) | Dimensions and grade represent aggregate of vein sampled in adit. While 1973 concentration tests were satisfactory, the deposit itself was found to be too small. |
| QUE. 392 | ODON LAKE<br>Redstone Res Inc<br>(in 1972)<br>32 J/9<br>50°41.1' 74°21.8' | Disseminated cp and mo in a 25°NW–dipping shear–breccia zone in gabbro. | **1971**: discovery; mag, EM, IP surveys, dd.<br>**1972**: dd. | ***(i) NE pod***: 5,000 at 3.34% Cu, minor Mo, across 4.8<br>***(ii) SW pod***: 4,000 at 2.60% Cu, 0.20% Mo, across 2.5'<br>***1972***<br>(Que GM–28490, 1972) | Drilling has delimited the two pods laterally and in depth. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 393 | DOMERGUE LAKE (LESSARD, STRIP)<br>BP Res Can L (57.3%), Muscocho Expls L (20.0%), Conwest Expl CL (22.7%)<br>32 J/10<br>50°38.5' 74°38.5' | Volcano–exhalative sulphide (sph, py, po, cp, gal) deposit in two lenses in rhyolitic tuff. | **1970–71**: mag–EM surveys.<br>**1971–74**: dd.<br>**1979**: dd.<br>**1981**: EM survey. | Dd–ind: 1,050,000 at 3.30% Zn, 1.82% Cu, 1.12 oz/t Ag, 0.02 oz/t Au ***1979***<br>(Conwest Expln CL, 1979 AR) |  |
| QUE. 394 | MOLÉON LAKE<br>BP Res Can L<br>32 J/10<br>50°42.5' 74°47.5' | Massive and disseminated sulphides (po, sph, cp, gal) in a silicic tuff within a contact metamorphic zone of a gabbroic intrusive. | **1961**: discovery.<br>**1962**: mag and EM surveys.<br>**1962, 1965, 1972–74**: dd. | 200,000 at 4.25% Zn, 2% Cu, 1.5 oz/t Ag, 0.029 oz/t Au ***1974***<br>(Que, oral commun 1981)<br>***or*** 181,400 at 1.56% Cu, 3.40% Zn ***1974***<br>(Que DPV–756, p 14, 1980) |  |
| QUE. 395 | TROÏLUS FREEGOLD<br>Muscocho Expls L<br>32 J/15<br>50°51.0' 74°34.2' | Au in qtz veins and stringers within a 6–8' wide shear zone in volcanics. | **1959**: discovery.<br>**1967**: dd – 17 holes.<br>**1980–81**: 46 ddh.<br>**1988**: dd, geochem. | 17,500 at 0.48 oz/t Au ***1981***<br>(NM 9/07/81) | In a block of 110 m x 1.2 m x 45 m (deep). |
| QUE. 396 | TROÏLUS NORTH<br>Minnova Inc<br>32 J/15<br>50°58.5' 74°31.5' | Silicified and sericitized felsic and mafic tuffs cut by dykes of qtz porph are Au bearing. | **1988–89**: dd. | c 12 million at low (unstated) grade Au ***1988***<br>(Finance 17/04/89) | Average grade could be higher than 0.065 oz/t Au. |
| QUE. 397 | CHABOULLIÉ (HORDEN) LAKE<br>Nemiscau ML<br>32 K/13<br>50°56.2' 77°48.1' | Cp, pn, po, py, as magmatic segregations in gabbro. | **1957**: airborne mag and EM.<br>**c 1962**: discovery.<br>**1963–69**: 70,000' dd. | 1,929,250 at 2.31% Cu, 0.49% Ni, 0.96 oz/t Ag ***plus*** 1,050,750 at 1.20% Cu, 0.39% Ni, 0.51 oz/t Ag, undiluted ***1969***<br>(Que 23/08/77, written commun to A G Sozanski) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 398 | EASTMAIN<br>MSV Res Inc<br>33 A/8<br>52°18.0′ 72°05.5′ | Siliceous zone in basalt carrying po, py, minor cp, traced for 2 200 m across 2.5 m by dd in 1983 and still open. | **1970**: aerial and ground geoph surveys, 2 ddh – both cut good Au values.<br>**1973–75**: minor surf work and poss dd.<br>**1982**: 34 ddh of which 14 outlined deposit.<br>**1983–86**: geoph, dd.<br>**1987–89**: ramp advanced 3,484′, u/g dev, dd.<br>**1989**: feasibility study. | Prov & prob: 952,383 at 0.35 oz/t Au<br>(MSV Res Inc, Release 1/05/89) | $40 million in financing was being arranged in July 1989 to bring the property into production. |
| QUE. 399 | CYR LITHIUM<br>Soquem<br>33 C/3<br>52°14.1′ 77°03.6′ | Spodumene in numerous irregular bodies of pegmatite occurring in a belt of 4 km x 300 m. | **1973–74**: surface sampling, concentration tests.<br>**1977**: 3 ddh. | 40,000 T/VF at 1.7% $Li_2O$ ***1974***<br>(Que MIQ 1975, p 87) | Based on surface sampling; later dd showed the values to diminish with depth. Conc tests showed Fe content to be too high for use in ceramics. |
| QUE. 400 | SAKAMI LAKE<br>Canadian Nickel CL (67%) and Soquem (33%) (c 1984)<br>33 F/2<br>53°10.9′ 76°54.8′ | Host rock is a deformed chert–pebble conglomerate, part of a Proterozoic outlier resting on Archean basement. | **1972–75**: airborne and ground rad surveys, dd. | Approx 10,000,000 at 1 lb/t $U_3O_8$ in a zone 1 km long c ***1975***<br>(GEOS, p 7, Winter 1978) |  |
| QUE. 401 | GANIQ<br>Soquem (c 1985)<br>33 G/13<br>53°46′ 75°40′ | Uraninite and brannerite occur as lenses in vertical fractures and shears in Archean basement rocks; possibly remobilized from nearby Proterozoic sandstone. | **1975**: radiometric, Radem, mag, VLF and geochem surveys.<br>**1976**: 18 ddh.<br>**1977**: 34 percussion holes. | ***(i) North zone***: 150 000 mt poss at 0.050% $U_3O_8$<br>***(ii) South zone***: 115 000 mt poss at 0.035% $U_3O_8$<br>(Que GM–37017, 1979) | Located in township 3321 near La Grande R. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 402 | RICHMOND GULF – LITTLE WHALE RIVER<br>33 N/15; 34 C/2<br>55°56.7' 76°44.0'<br>(Ruby Lake) | Py, sph, gal at the bottom of gently dipping limestone unit of the Aphebian Manitounuk Group. Sulphides with qtz–carb occur as veins, as disseminations, occasionally in massive lenses, and as partial replacements of algal structures. | **1947**: rock trenching, bulk sampling.<br>**1948–49**: dd. | ***(i) Nancy Island***: 294,463 at 2.15 % Zn, 0.72% Pb across 11.2' in 3 lenses<br>***(ii) Ruby Lake***: 578,690 at 1.26% Zn, 1.02% Pb across 16.4'<br>***(iii) Lake Monté***: 132,560 at 1.75% Pb<br>***1948***<br>(NM 30/12/48) | In 1984 Gulf Lake Lead Ms Inc acquired an exploration permit over the Ruby Lake deposit. The ground was open in 1989. |
| QUE. 403 | DELTA (KENTY LAKE)<br>Falconbridge L (51%), Oasis Res Inc (34%), Messeguay M Inc (15%)<br>35 G/8<br>61°29.1' 74°27.7' | Po, pn, cp as mass lenses in peridotite. Associated PGE values. | **1974–80**: geol, geoph, dd by Cominco.<br>**1984**: surf sampling.<br>**1986**: airborne geoph, surf sampling.<br>**1987–88**: dd. | 1 022 800 mt at 2.62% Ni, 1.11% Cu, 2.25 g/t PGE, in 3 deposits ***1987***<br>(Que DV 88–01, p 247, 1988) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| QUE. 404 | RAGLAN NICKEL<br>New Que Raglan ML | Po, pn, cp are generally localized at or near the base of ultrabasic sills intruding Aphebian lavas and sediments of the Cape Smith – Wakeham belt. The deposits occur at irregular intervals within this belt over a distance of 35 mi. | **1931–32**: first discoveries.<br>**1954**: staking, surface work.<br>**1957–58**: airborne and ground mag–EM surveys, dd.<br>**1961–70**: geoph surveys, dd, bulk sampling, metallurgical tests.<br>**1965**: Falconbridge Nickel ML assumes control of Raglan Nickel ML.<br>**1969–70**: shaft sunk 924' on Donaldson deposit with 4,393' lateral advance on 700' level, u/g dd.<br>**1971**: 38 mi road constructed from Douglas Harbor to Donaldson and Katiniq deposits; engineering and feasibility studies.<br>**1980**: aeromag survey.<br>**1981**: 46,000' dd in Donaldson area; feasibility studies.<br>**1982**: dd.<br>**1988**: airborne mag–EM. |  | Falconbridge L owns 100% of New Que Raglan ML.<br>No work has been done on Cross Lake, C–1 and C–2 since 1964. The other 4 deposits are higher grade and likely to be mined first.<br>High costs of diesel power generation, labour, material and transportation deter production decision. Start–up costs could be in the range of $150–200 million. |

| DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|
| **Cross Lake** 35 G/9<br>61°35.6' 74°17.5' | | | Dd–ind: 5,882,400 at 1.44% Ni; 0.65% Cu<br>***1964*** | |
| **C–1** 35 G/9<br>61°35.7' 74°14.5' | | | Dd–ind: 1,301,900 at 1.71% Ni, 0.96% Cu<br>***1964*** | |
| **C–2** 35 G/9<br>61°35.8' 74°13.1' | | | Dd–ind: 2,717,900 at 1.65% Ni, 0.99% Cu<br>***1964*** | |
| **Donaldson** 35 H/11<br>61°40.5' 73°17.5' | | | Prov & prob: 4,227,500 at 3.44% Ni, 0.80% Cu<br>***1981*** | |
| **Katiniq** 35 H/12<br>61°41' 73°40' | | | Prov & prob: 5,431,400 at 2.92% Ni, 0.81% Cu<br>***1981*** | |
| **2–Area** 35 H/12<br>61°40.0' 73°44.7' | | | Prov & prob: 939,500 at 2.69% Ni, 0.76% Cu<br>***1981*** | |
| **3–Area** 35 H/12<br>61°39.8' 73°46.2' | | | Prov & prob: 1,438,200 at 3.19% Ni, 0.76% Cu<br>***1981*** | |
| | | | (Que ES–9, pp 8–9, 1971; New Que Raglan ML, 1981 AR) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| QUE. 405 | EXPO UNGAVA<br>Exroy Res L<br>(in 1988)<br>35 H/11<br>61°33.3′ 73°26.7′ | Disseminated to massive po, pn, cp in an ultrabasic rock. | **1957**: discovery.<br>**1967–69**: mag survey, dd.<br>**1970–71**: dd. | Ind: 4,065,895 at 0.96% Ni, 1.04% Cu, mineable by o/p ***1969*** (CMH 1978–79, p 11) ***or*** 18,738,000 at 0.47% Ni, 0.52% (Que ES–9, p12, 1971) | The larger tonnage figure results from computerized statistical analysis of drill core intersections, with error probability reported to be ± 15%. |
| QUE. 406 | ASBESTOS HILL<br>Asbestos Corp L<br>35 H/13<br>61°48.8′ 73°57.8′ | Mainly cross–fibre chrysotile in serpentinized dunite. | **1957**: disc.<br>**1960–62**: dd.<br>**1970–71**: preprod dev.<br>**1972–81**: o/p prod. | Prov: 13 160 000 mt Asb at unstated grade ***1983*** (Asbestos Corp L, 1984 AR) | Mining ceased in 1981, but mill operated 18 weeks in 1982 and 15 weeks in 1983, using stockpiled ore. |

# ONTARIO

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 1 | ACKERMAN<br>Champion Gold Resources Inc<br>31 C/5<br>44°29'57" 77°36'45" | Gold with asp and py in a qtz vein. | **1937–38**: Shaft at 45° to 270', drifting on 170' level.<br>**1951**: dd.<br>**1979–88**: geoph, geol, dd. | Poss: 8,614 at 0.258 oz/t Au ***1988***<br>(Champion Gold Res Inc. ASE LS 88–152, p 19) |  |
| ONT. 2 | MARMORA<br>Cominco Ltd.<br>31 C/5<br>44°29'42" 77°36'52" | Wollastonite in late Precambrian calcitic marble. | **1985–89**: Discovery, sampling, testing, str, tr, dd. | **(i) Zone 1**: 500,000 at 47% wollastonite indicated<br>**(ii) Zone 2**: 750,000 at 39% wollastonite inferred.<br>(CMH 1988–89 p 370). | Partnership with Black Hawk Mining Inc. |
| ONT. 3 | FRONTENAC LEAD MINE (FORBES GALENA MINE)<br>Lake Kingston ML (in 1957)<br>31 C/7<br>44°28'29" 76°51'17" | Calcite–galena vein up to 44' wide, averaging 10'–12' in Precambrian marble. Vein in 2 segments 1,500' and 1,000'. | **1866–70**: No 1 shaft 80', about 2,000 tons ore mined.<br>**1875–80**: No 1 shaft to 267', drifting on 5 levels.<br>**1903–05**: No 2 shaft to 80', 500 tons ore mined.<br>**1911–12**: No 3 shaft to 150', 500' drifting.<br>**1916–17**: prod.<br>**1926–27**: No 1 shaft to 313', drifting on 300' level.<br>**1947–48**: 3 108' dd.<br>**1951–52**: 11 ddh.<br>**1958**: 2 046' dd. | Poss: 250,000 Pb, grade unstated ***1952***<br>(Ont SMDR 000940, 1974) | Bulk sampling on surface over a length of 400' and an average width of 12' gave 4.20% Pb, 0.30% Zn, 0.22 oz/t Ag. |
| ONT. 4 | JOYCEVILLE<br>Canada Dept of Justice<br>31 C/8<br>44°21'11" 76°21'45" | Ordovician or Cambrian Potsdam Fm sandstone exposed in a 50' cliff over 6,400' length and a width 200' to 900'. Sections are limonitic or carbonaceous. | **1943–46**: quarry operations, dd, mill constructed. | 10,000,000 tons sandstone at between 96.03% and 99.12% $SiO_2$ ***c 1945***<br>(Ont AR 1945, pt 5, p 16–18) | Plant closed in 1953 and expropriated by Dept of Justice. |
| ONT. 5 | PADDLE<br>St Lawrence Industrial Silica L (in 1962)<br>31 C/8<br>44°18'16" 76°16'44" | Grey Ordovician or Cambrian Potsdam Fm sandstone in a 10–12' section. Grain size –20 to plus –200 mesh range with limonite and carbon-aceous material | **1950**: quarry operations.<br>**1956**: dd. | 1,714,600 at 96.0% $SiO_2$ plus 7,855,300 at 92.6% $SiO_2$ plus 4,585,600 at 83.0% $SiO_2$ ***c 1956***<br>(Ont IMR 9, p 18, 1963) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 6 | CORNELL<br>Victoria Graphite Inc.<br>31 C/9<br>44°44'40" 76°09'34" | Graphite in late Precambrian siliceous marble and biotite paragneiss. | **1959–62**: pitting, sampling.<br>**1988–89**: dd. | Poss: 750 000 mt at 7.04% Grp. ***1989***<br>(NM 3/07/89) |  |
| ONT. 7 | HUDSON BAY<br>Rio Tinto Cdn Expl L<br>(in 1962)<br>31 C/9<br>44°40'39" 76°16'17" | Cambrian or Ordovician Potsdam sandstone or qtzitic sandstone 10'–12' thick. | **1960–61**: dd, milling tests. | 5,000,000 $SiO_2$, grade unstated (13.5' thick) plus 2 100 000 $SiO_2$, grade unstated (17.7' thick) *c* ***1956***<br>(Ont IMR 9, p 21–23, 1963) |  |
| ONT. 8 | MATTHEWS MINE<br>Dynamar Energy L<br>(in 1983)<br>31 C/9<br>44°38'18" 76°20'24" | Mag with some ilmenite, hematite and py as disseminations, layers and veins in Proterozoic gabbroic anorthosite. | **1860–74** : mng from o/p.<br>**1957–60**: mag, dd, concentrating tests. | Ind: 38,000,000 at 25.1% Fe, 6.60% $TiO_2$ ***1960***<br>(Mymar Mng & Reduction L, 1970 AR) | Deposit 1 900' long, 500' wide, 400' deep. |
| ONT. 9 | TIMMINS MINE<br>Lodi Metals Inc.<br>31 C/9<br>44°44'23" 76°18'40" | Graphite as disseminations in white siliceous marble with richer concentrations in shear zones. The zone is about 0.75 mi long. One section has length 450', width 12.7', and a grade of 8.4% C. | **1918**: mng and dev, dd.<br>**1951**: dd, mill test on 150 tons.<br>**1988–89**: geoph, tr, sampling, dd. | Inf: 1,000,000 at 8% Grp<br>(NM 02/01/89) | Black Hawk Mining Inc. option. |
| ONT. 10 | KIRKHAM GRAPHITE<br>Stewart Lake Resources Inc.<br>31 C/10<br>44°33'35" 76°34'28" | Graphite in Precambrian siliceous marble in a syncline. Upper zone is about 300' long and 22' wide, the lower zone is about 250' long. | **1952**: dd, 300 ton bulk sample taken.<br>**1953**: EM survey, dd.<br>**1987–89**: dd, geoph, u/g exploration, sampling. | Dd–ind: 4,000,000 at 8.7% Grp ***1988***<br>(CMH 1988–89, p 423) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 11 | ADDINGTON MINE<br>(GOLDEN FLEECE)<br>Cathedral Gold Corp.<br>31 C/11<br>44•42'15" 77•11'27" | Gold–bearing zone consisting of qtz stringers and veins along the contact between Precambrian metavolcanics and metasediments. The zone is about 3,000' long and 15' wide and contains ankerite, calcite, tourmaline, py, cp, po, asp and scheelite. | **1881**: discovery.<br>**1887**: shallow shafts, 10 ton stamp mill.<br>**1907–21**: mng, shaft deepening.<br>**1922**: cyanide plant added.<br>**1932**: mine dewatered, small amount of gold produced.<br>**1936–39**: u/g dev; surface and u/g dd.<br>**1981**: 3 000 m dd by E&B Expls L.<br>**1983–87, 89**: sampling, str, dd. | 785,000 at 0.13 oz/t Au ***1988***<br>(CMH 1988–89, p 103) | In 1939 all work was suspended and the mine allowed to flood. |
| ONT. 12 | OMYA–KOIZUMI<br>Kaladar Imko Inc<br>31 C/11<br>44•30'13" 77•08'13" | Mica in Precambrian muscovite schist. Up to 60% flake muscovite. | **1978**: discovery, dd.<br>**1981–83**: sampling. | N/A | Optioned in 1986 by Lacana Mining Corp. |
| ONT. 13 | SOPHIA MINE<br>Faith Mines Ltd.<br>31 C/11<br>44•35'21" 77•26'05" | Gold with asp in a qtz vein cutting Precambrian hornblende and chlorite schist. | **1896–1900**: discovery, 3 shafts, u/g exploration, 10–stamp mill, prod. 50 ounces gold.<br>**1939–1941**: u/g exploration, No. 1 shaft to 156', 15–ton mill; prod: 10 oz Au, 7 oz Ag.<br>**1981**: geol, geoph, dd<br>**1986**: dd. | 52,400 Au grade unstated ***1986***<br>(Faith Mines Ltd, 1986 AR | |
| ONT. 14 | TWIN BUTTES<br>Twin Buttes Expl Inc<br>(in 1988)<br>31 C/11<br>44•30' 77•29' | N/A | **1985**: dd. | 2,000,000 talc, grade unstated ***1985***<br>(Ont MP 128, p 286, 1986) | |
| ONT. 15 | BANNOCKBURN<br>Micham Exploration Inc.<br>31 C/12<br>44•38'22" 77•33'20" | Gold in qtz veins 0.1' to 3' wide in Grenville metavolcanics. | **1894–97**: stripping, tr, pit, mill.<br>**1965–1986, 1988**: tr, sampling, geoph, dd, u/g exploration. | 372,154 at 0.395 oz/t Au ***1988***<br>(GCNL 10/05/88) | In partnership with Mono Gold Mines Ltd. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 16 | CORDOVA (BELMONT) MINE<br>Lasir Gold Inc<br>31 C/12<br>44°32'10" 77°47'15" | Gold in qtz lenses and stringers, with py and minor po. Zones in shear zones cutting Precambrian gabbro intrusion. | **1890**: discovery.<br>**1891**: shaft sinking.<br>**1892–1917**: intermittent prod: 22 774 oz.<br>**1933**: u/g sampling by Cominco Ltd.<br>**1935–39**: No 35 shaft to 1,050' on incline, 152' inclined winze.<br>**1939–40**: small prod, 125 tpd mill.<br>**1965**: dd, sampling of tailings and in-situ Au material.<br>**1979**: cyanide heap–leaching of tailings.<br>**1988**: dd. | 200,000 at 0.12–0.25 oz/t Au ***plus*** 25,000 broken ore ***c 1940 ?***<br>(Ont MP 91, p 130, 1980)<br>***plus***<br>200,000 at 0.06 oz/t Au (in tailings)<br>***1980***<br>(Ont, MP 95, p 151, 1981) | Aug 1981 received $16,119 for gold extracted from 682 lbs of Au–bearing charcoal from tailings.<br>(GCNL 08/01/82) |
| ONT. 17 | GILMOUR MINE<br>Pike Resources Inc<br>31 C/13<br>44°50'30" 77°32'18" | Gold in qtz veins cutting mafic metavolcanics. | **c 1902**: discovery.<br>**1910**: shaft, u/g work, 5 stamp mill.<br>**1911**: shaft sinking.<br>**1935**: 100 t/d mill.<br>**1940**: u/g workings dewatered, dd.<br>**1980**: sampling.<br>**1981**: dump and tailings examined. | 15,000 at 0.2 oz/t Au (in dump) ***1981***<br>(CMJ 8/81, p 10) |  |
| ONT. 18 | MACASSA (LIMERICK)<br>Lac Minerals L<br>31 C/13<br>44°52'15" 77°43'15" | Disseminated and semi–massive sulphides (10%–70%) in Precambrian meta-pyroxenite in a portion of ultramafic complex. The deposit is about 800' long; 50' wide and extends more than 1,000' in depth. The zone pinches and swells and includes po, pn, py, cp, traces of cubanite and sph. | **1961**: discovery after EM survey of an aeromag high.<br>**1962–63**: dd.<br>**1969–71**: dd, metallurgical testing, SP, bore hole geoph. | Ind: 1,800,000 at 0.91% Ni, 0.26% Cu, 0.06% Co to a depth of 1,200'<br>***1970***<br>(NM 14/10/71)<br>***or***<br>3,894,000 at 0.825% Ni; 0.054 % Co; 0.253% Cu to 1,100' ***c 1970***<br>(FP Corp Serv, Willroy ML, June 1979) | Metallurgical problems. High cost of treatment has hindered development. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 19 | ORE CHIMNEY<br>Al Banner<br>31 C/14<br>44°46′38″ 77°09′06″ | Gold and silver in a qtz vein in a shear zone in Precambrian mafic metavolcanics. Vein up to 4′ wide and contains gal, sph, cp and py. Length of vein 50′–100′ in u/g workings. | **Pre–1909**: discovery.<br>**1911–16**: shaft to 405′, 5 levels, 20–stamp mill, little ore treated.<br>**1923–24**: some u/g work.<br>**1925–26**: 125′ winze, new level.<br>**1929–30**: radiore survey, dd.<br>**1932**: mine dewatered, u/g sampling, u/g dev and dd.<br>**1956–1963**: dd.<br>**1980, 83**: 87: dd, u/g exploration. | Prob: 11,000 at 0.20 oz/t Au, 5.64 oz/t Ag, between 100′ and 500′ ***1957***<br>(Cavalier Mng CL 1957 prospectus) | Michele Gold Mines Ltd. option in 1989. |
| ONT. 20 | CUMMINGS<br>Commercial Industrial Minerals Ltd.<br>31 C/15<br>44°54′44″ 76°44′02″ | Tremolite or clarendite and talc in Precambrian dolomitic limestone. | **c 1930s**: expl.<br>**1970**: dd.<br>**1977**: 50 tons tremolite material taken.<br>**1981**: prod. | 3,400,000 clarendite ***plus*** 390,000 talc ***plus*** 143,000 phlogopite ***1985***<br>(NM 09/12/85) | **1981–88**: intermittent prod, but quantities not available. |
| ONT. 21 | GLOBE GRAPHITE MINE<br>Black Gregor Expl L<br>31 C/16<br>44°51′32″ 76°09′40″ | Graphite in Precambrian marble on a limb of an anticline. Maximum width is 40′, length is 400′, grade about 15% to 25% C. Diopside, feldspar, calcite, pyrite and titanite are main gangue minerals. | **1870–75**: mng operations.<br>**1893**: expl.<br>**1902–03**: mng operations.<br>**1908–11**: mng operations.<br>**1915–19**: mng operations, o/p 400′ long, 10′–30′ wide, shaft 250′, 4 levels, u/g work.<br>**1984**: geoph, dd. | Poss: 100 000 Grp, grade unstated ***c 1942***<br>(MPS RF 167–G2–2–5, 1942) |  |
| ONT. 22 | OLYMPUS<br>(STANLEYVILLE)<br>Canalex Res L<br>31 C/16<br>44°48′00″ 76°19′28″ | Vermiculite, talc, calcite, diopside, phlogopite in serpentinized metamorphic pyroxenite. The band has apparent width of 200′, length more than 1,000′, depth of 300′. Joints and fractures filled by massive talc. | **1950**: discovery.<br>**1951**: test pitting, trenching, dd.<br>**1960**: o/p started over an area of about 275′ x 900′ to a depth of 16′, auger drilling, dd, 165,000 tons stockpiled.<br>**1965**: pilot mill.<br>**1985**: beneficiation tests. | 13,500 T/VF Ver material<br>(NM 26/11/64)<br>***or***<br>4,000,000 Ver, grade unstated to a depth of about 300′ ***1979***<br>(Olympus ML, Oct 1979, personal commun) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 23 | CAVENDISH MINE<br>Golden Earth Res Inc<br>31 D/9, 16<br>44°45'00" 78°21'20" | Uranothorite, uraninite and allanite in flat lying Precambrian pegmatite dykes. Secondary uranium minerals incl uranophane and kasolite. Accessory minerals incl magnetite, zircon, titanite and fergusonite. | **1954**: discovery.<br>**1955**: shaft to 88', lateral work and raising, dd.<br>**1967**: dd.<br>**1973**: geol mapping, dd.<br>**1973–78**: economic viability study. | Ind: 435,624 at 0.096% $U_3O_8$ ***1955***<br>(NM 23/05/68) | Tonnage is found in two zones. The company reorganized in 1979 for the purpose of developing its Bancroft area properties. |
| ONT. 24 | ZENMAC (LOON CALL), (NEWKIRK B GROUP)<br>Camindex ML<br>31 D/9<br>44°44'14" 78°10'10" | Four uranium-bearing lenses in granite pegmatite. Uranothorite is the U-bearing mineral and accessories incl zircon, molybdenite and cp. | **1953**: airborne scintillometer survey.<br>**1954–55**: ground scintillometer surveys, geol, dd.<br>**1967–69**: dd.<br>**1974**: mag and EM surveys. | Ind & inf: 406,000 at 1.77 lbs/t $U_3O_8$ to a depth of 500' and over a true width of 7.5' ***c 1968***<br>(NM 25/01/68) | Camindex was granted a 21 yr lease on the property in 1978. |
| ONT. 25 | BICROFT 1 (CENTRE LAKE)<br>Lac Minerals L<br>31 D/16<br>44°59'35" 78°02'05" | Ore shoots in Precambrian syenite and granite pegmatite. Ore minerals uraninite, uranothorite, thorite, pyrochlore and betafite. Accessories are allanite, zircon, titanite, fluorite, py, po and mo. Pegmatite bodies range from a few feet to 80' in width and up to 400' in length. | **1952**: discovery.<br>**1953–54**: trenching, dd, airborne rad, 975' adit, shaft to 234', one level.<br>**1955–56**: No 2 shaft, 500 tpd mill, dd.<br>**1956–63**: prod, No 2 shaft to 1843', 12 levels. | N/A U | Operations ceased in 1963 on completion of contract obligation. Contract was not renewed. |
| ONT. 26 | BLUE ROCK OCCURRENCE (RARE EARTH NO 2)<br>Golden Earth Res Inc<br>31 D/16<br>44°56'00" 78°14'36" | Zone C or Main zone, consists of radioactive granite–pegmatite that intrudes or replaces Precambrian metagabbro. Ore shoots are from a few feet to 20' wide and 10'–200' long, in a zone 1,000' long. Accessory mnrls are zircon, allanite, titanite, urano-thorite, fergusonite, uraninite and uranophane. | **1952**: "A" zone discovery, trenched, dd.<br>**1954–56**: "C" zone discovery, scint survey, dd, shaft to 440' (3 levels), u/g dd, adit.<br>**1969**: scint survey.<br>**1974–75**: dd.<br>**1973–78**: economic viability study. | 86,597 at 0.095% $U_3O_8$ to a depth of 400'<br>***or***<br>ind: 205,847 at 0.095% $U_3O_8$ to a depth of 600' and within 500' of workings<br>***1957***<br>(Ont SMDR 000224, 1977) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 27 | CANADIAN DYNO<br>Conwest Expl CL<br>31 D/16<br>44°56′00″ 78°14′36″ | Uranothorite, uraninite, uranophane in Precambrian leucogranite and pegmatitic leucogranite dykes. Accessories incl mag, pyroxene, titanite, zircon, allanite, hematite, and apatite. Some pyrochlore is also present. | **1953**: discovery, dd, geol, rad survey.<br>**1954–56**: dd, stripping, trenching, shaft to 1719′; 8 levels, 1,100 t/d mill.<br>**1957–60**: prod. | Poss: 500,000 at 0.065% $U_3O_8$ ***1960***<br>(MPS MR 12, p 220, 1967) | Dykes 5′ to 50′ wide and more than 100′ long. Five zones in a strike distance of 6,500′. "B" most important 1,200′ long, 75′ wide and 1,000′ deep. |
| ONT. 28 | EMPIRE–B ZONE<br>Uranex Res L<br>31 D/16<br>44°59′40″ 78°11′32″ | Uraniferous Precambrian leucogranite or granite pegmatite lenticular discontinuous dykes or bodies. U–bearing minerals incl uranothorite and uraninite, accessories incl zircon, titanite, allanite, pyrite, and magnetite. | **1954**: scint and geol surveys, dd.<br>**1967**: airborne mag, EM, scint, dd.<br>**1971**: geochem, dd.<br>**1976**: dd. | Ind: 2.6 Mt at 0.71 lbs/t $U_3O_8$ to a depth of 400′ ***1976***<br>(NM 22/09/77) | U concentrated in lenses over widths of 2.1′ to 9.3′ and lengths of 25′ to 600′. |
| ONT. 29 | FARCROFT<br>Camindex ML<br>31 D/16<br>44°45′45″ 78°08′26″ | Uranium–bearing sections in pegmatite masses 40′–50′ wide. Radioactive mnrls incl uranothorite, uraninite, allanite in 4 lenses 150′ to 1,180′ long, 4.0′ to 10.4′ wide. Mo and zircon are also present. | **1953**: airborne scint survey.<br>**1954–55**: ground scint survey, dd.<br>**1967–69**: dd.<br>**1974**: mag and EM. | 1,200 T/VF at 0.077% $U_3O_8$ ***c 1967***<br>(NM 03/08/67) |  |
| ONT. 30 | KENMAC CHIBOUGAMAU<br>Kenmac Chibougamau ML (in 19[illegible]4)<br>31 D/16<br>44°59′52″ 78°09′10″ | Precambrian leucogranite contains patches rich in mag with rare accessory allanite and uranothorite. | **Pre–1954**: discovery.<br>**1954–55**: stripping, trenching, dd, scint survey; adit and lateral work, bulk sampling. | Ind: 200,000 at 0.20% $U_3O_8$ ***c 1967***<br>(ODM SMDR 000179, 1976) | Tonnage and grade estimates are preliminary. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 31 | NORTHERN NUCLEAR (WADASA)<br>Tom Gledhill (in 1977)<br>31 D/16<br>44°55'24" 78°19'05" | Uraninite in Precambrian silicated marble close to contact with radioactive pegmatite. Zone is 1,600' long, 500' wide (down dip), 25' thick. Associated mnrls incl apatite, py, zircon, epidote, sericite, phlogopite, biotite, po, cp, actinolite–tremolite, and mo. | **Pre–1954**: discovery.<br>**1954**: dd, trenching, bulk sampling. | 2 Mt at 0.045% $U_3O_8$ ***c 1968***<br>(Northern Nuclear ML 1969 prospectus) |  |
| ONT. 32 | RARE EARTH MINE (RARE EARTH NO 1)<br>Golden Earth Res Inc<br>31 D/16<br>44°57'05" 78°15'04" | U–bearing ore shoots in granite or granite pegmatite bodies intruding Precambrian diopside qtzite. Accessories incl allanite, uranothorite, zircon, py, mo, po. The granite or granite pegmatite bodies are lens-shaped or narrow dykes 2'–200' long. | **c 1948**: discovery.<br>**1951**: dd, adit, shaft to 657', 5 levels, some u/g dev.<br>**1956**: u/g dd.<br>**1958**: metallurgical testing.<br>**1968**: scint survey.<br>**1973–78**: economic viability study. | 52,760 at 0.110% $U_3O_8$ ***1957***<br>(Ont SMDR 000219, 1977) | No 1 shaft area, to a depth of 600', incls 10–15% dilution. The company reorganized in 1979 for the purpose of developing its Bancroft area properties. |
| ONT. 33 | ATLIN–RUFFNER<br>Uranex Res L<br>31 E/1<br>45°00'42" 78°10'56" | Allanite bearing pegmatite zone 200' long by 6' wide to 160' depth. Crystals of allanite up to 6". | **1953–55**: scint and mag surveys, trenches, dd, bulk sample, geol survey.<br>**1967**: airborne EM and mag surveys. | Prob: 36,600 at c 2.29% $CeO_2$ ***1955***<br>(Ont SMDR 0001512, 1975) | Fluorite potential in the area west of the cerium showing was being evaluated in 1971. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 34 | BICROFT (CROFT)<br>ERG Resources Inc.<br>31 E/1<br>45°02'00" 78°01'48" | Uranium mnrls in Precambrian pegmatite dykes which are irregular pod-shaped, branching, cutting and replacing country rocks. There are several radioactive showings along an 8,500' length. Most important is "J" zone, where 4 lenticular bodies of pegmatite occur along a strike length of 1,500', to a depth of 700' and widths of about 10'. On surface are yellow secondary U minerals and u/g are uranothorite, accessory zircon, py, mo. | **1952**: discovery.<br>**1953–54**: airborne scint, trenching, 360' adit.<br>**1975**: radon gas survey, dd, metallurgical testing.<br>**1977**: dd.<br>**1979**: dd. | Ind: 979,810 at 1.20 lbs/t $U_3O_8$ (.5 lb/t $U_3O_8$ cut–off over minimum width of 10') in Adit, Middle and Fourth zones, to 500' depth ***1976***<br>(Energy & Res (Cam) L *in* TSE Fil Stat 2071, 16/01/80) | In 1980 Dolores Bench Res L had 25% interest and Kerr Addison ML 25%. |
| ONT. 35 | FISSION (RICHARDSON) (BAYCROFT)<br>Fission ML (in 1955)<br>31 E/1<br>45°03'20" 78°11'35" | Uraninite and uranothorite in pyroxene–fluorite syenite pegmatite dykes exposed for 2,200'; thickness from 7' to 30'. Uraninite also in calcite–fluorite–apatite veins, 3' to 5' wide and avg 25% fluorite. | **1922**: discovery.<br>**1929–31**: pitting, trenching, 470' adit, 50' shaft, 875' lateral work. Open cut 380' x 20' x 20'.<br>**1931–33**: tests in a 50 t/d mill.<br>**1946–48**: 12,000' dd, small amount u/g exploration.<br>**1955**: 10 ddh totalling 2,545'. | 80,000 fluorite bearing material in No 1 and No 2 zones ***c 1952***<br>(GSC EG 16, p 109, 1962) | Recoverable from 300,000 tons fluorite bearing material within a width of 450'. One of the first Canadian deposits explored for radioactive minerals. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 36 | HALO (HALL LAKE ZONE)<br>Golden Earth Res In<br>31 E/1<br>45°01'42" 78°10'50" | Uranothorite, uraninite, thorite in Precambrian pegmatite masses that may be pyroxene rich. Accessory mnrls include mo, py, po, zircon. There are two occurrences about 1,000' apart: Lake and Northwest. | **1953**: discovery, rad surveys, stripping, dd.<br>**1955**: trenching, dd, Nos 1 and 2 adits.<br>**1956**: raise to surface from No 1 adit, lateral work, dd.<br>**1968**: rad surveys, tr, dd, EM.<br>**1980**: access road rebuilt, u/g bulk sampling. | ***(i) No 1 adit (Northwest showing)***: 48,000 at 0.109% $U_3O_8$, above adit level<br>***plus***<br>240,000 ind at 0.115% $U_3O_8$, below adit to 315'<br>***plus***<br>110,000 poss at 0.118% $U_3O_8$, 315' to 515'<br>***c 1957***<br>***(ii) No 2 adit (Lake showing)***: 6,000 at 0.098% $U_3O_8$, above adit level<br>***plus***<br>23,000 ind at 0.098% $U_3O_8$, below adit to 105'<br>***plus***<br>45,000 poss at 0.098% $U_3O_8$, 105' to 305' (includes 10% dil)<br>***c 1957***<br>(Ont Resident Geologist, Southern Ontario, File Cardill 39; Ont SMDR 175 and 176, 1976) | |
| ONT. 37 | HARCOURT (MUMFORD)<br>Frobisher L<br>(in 1951)<br>31 E/1<br>45°04'10" 78°10'04" | Flake graphite, up to 1/8" in Precambrian limy paragneiss. Zone 1,200' long, 60' thick contains some py. | **Pre–1912**: discovery.<br>**1912–15**: mill, small u/g operation, small amount mined.<br>**1951**: dd. | Ind: 1,400,000 at 4.1% C<br>***c 1951***<br>(Ont IMR 20, p 20, 1965) | Includes 800,000 tons at 5% C. |
| ONT. 38 | JOINER<br>Carbrew Expls L<br>(in 1977)<br>31 E/1<br>45°02'43" 78°11'50" | Molybdenite as disseminations or in poorly developed fractures in Precambrian intercalated paragneiss and limestone. Area could be about 1,600' x 800'. | **1917**: expl.<br>**c 1920s**: trenching.<br>**1955**: trenching.<br>**1952–57**: trenching, dd.<br>**1965–66**: geol mapping, sampling, dd. | 500' x 8.5' at 0.22% $MoS_2$ ***1966***<br>(Ont MRC 7, p 27, 1968) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 39 | WILBERMERE LAKE<br>Uranex Res L<br>(in 1978)<br>31 E/1<br>45°00'15" 78°12'06" | Fluorite in a granite pegmatite dyke and in calcite–fluorite vein dykes over a stratigraphic thickness of 15'–30'. | **1953–55**: explored for uranium, scint survey, dd.<br>**1967**: airborne mag, EM, scint survey, dd.<br>**1971**: geochem.<br>**1972–73**: dd. | 2 Mt of low–grade Fsp with some U, Th, *c* ***1975***<br>(Ont SMDR 1143, 1978) | Individual dykes less than 3' wide and in a horizon of 2,200' strike length, slope length of 950' and an assumed average width of 12'. |
| ONT. 40 | GRAPHITE LAKE<br>Cal Graphite Corp<br>31 E/11<br>45°43'55" 79°04'40" | Graphite in qtz–feldspar–biotite–garnet gneiss.<br>Zone 1 1,800' long, 46'–243' thick. | **1943**: discovery, expl.<br>**1981, 1982, 1985**: str, sampling, dd.<br>**1988–89**: mill construction, open pit. | 29,451,840 tons Grp grade unstated of ***1988***<br>(CMH 1988–89, p 82) | In 1989 production was expected to start shortly. |
| ONT. 41 | TODD<br>The Graphite Corp of Can L<br>31 E/11<br>45°34'06" 79°27'33" | Graphite in Precambrian qtz–plagioclase–biotite–muscovite gneiss. | **1983**: geoph, dd, discovery. | ***(i) Zone A***: 3,000,000 t at 1.3% graphite<br>***(ii) Zone B***: 6,000,000 t at 3% graphite<br>***1985***<br>(ASE Prospectus, The Graphite Corp of Can L, 1985, p 10) |  |
| ONT. 42 | BEAVER CALCIUM<br>Burcal Industrial Mnrls L (in 1981)<br>31 E/13<br>45°45'15" 79°39'00" | Up to half a mile wide band of Precambrian crystalline limestone breccia. | **1967**: discovery, dd, pits, material testing.<br>**1971–72**: pilot plant, 3.5 t/h capacity.<br>**1975**: prod of about 10,000 tons low quality calcite. | 1,000,000–6,000,000 t calcite material *c* ***1974***<br>(NM 11/07/74; J E Jerome 19/09/73 for Beaver Mng Corp in MSE Fil Stat 28–74, 01/05/74) |  |
| ONT. 43 | CLYDE FORKS<br>Carndesson ML<br>(in 1975)<br>31 F/2<br>45°07'40" 76°43'40" | Five foot barite vein traced for 400' in crystalline limestone. Nearby an Hg–Sb–Cu deposit 5' thick, 300' long, extends 500' down dip. Mnrls incl mercurian tetrahedrite, stibnite, cp, asp, getchellite, cinnabar, barite, malachite, azurite, calcite and qtz. | **1918–19**: first investigated for barite, stripping, pits.<br>**c 1950s**: dd.<br>**1964–67**: dd, 98' adit into base–metal deposit.<br>**1968–70**: geochem, dd. | 60,000 Cu–Sb–Hg–Ag, grade unstated *c* ***1969***<br>(DW Sullivan 22/09/69 for Carndesson ML) | Assays up to 13.7% Cu, 2.8% Sb, 0.30 lbs/t Hg, 0.40 oz/t Ag. Some barite. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 44 | BEIDELMAN<br>Federal Zinc & Lead CL (in 1948)<br>31 F/3<br>45°15'00" 77°13'50" | Graphite as disseminated flakes in narrow bands in white Precambrian crystalline limestone. Phlogopite also present. | **c 1880**: discovery.<br>**1917**: dev work, o/p, trenches, pits. | Possible considerable tonnages of disseminated flake graphite. (MPS MR 167–G2–2–18, 1942) | Zone is about 250' wide and center bands of 1.5' to 2' contain over 50% flake graphite. |
| ONT. 45 | SIMON PROSPECT<br>Young–Davidson ML (in 1974)<br>31 F/3<br>45°12'40" 77°18'50" | Main occurrence consists of cp, po, minor sph in Precambrian amphibolite paragneiss. Zone is 2' to 30' thick. | **1961**: EM survey, geol mapping, dd, trenching.<br>**1965**: dd. | Ind & inf: 253,000 at 1.09% Cu, to a vertical depth of 350' ***1965*** (NM 26/05/66) | |
| ONT. 46 | FARADAY<br>Madawaska ML<br>31 F/4<br>45°01'14" 77°55'30" | Uranium and thorium mnrls in Precambrian pegmatite. Ore shoots range from 60'–350' in length, 6'–100' in width. | **1949–52**: discovery, str, tr.<br>**1952–54**: sampling, tr, dd, geol mapping, ground and airborne geoph, u/g expl.<br>**1956–64**: shaft sinking, prod.<br>**1968–69**: u/g expl.<br>**1976–82**: prod, shaft to 1 500', mill capacity at 1500 t/d. | N/A | Production ceased due to termination of sales contract with AGIP Nuclear International, an agency of the Italian government. |
| ONT. 47 | GREYHAWK<br>Madawaska ML<br>31 F/4<br>45°01'54" 77°53'40" | Uraninite and uranothorite in Precambrian granitic pegmatite dykes. Other radioactive mnrls are allanite, pyro-chlore, and cryolite and accessory py, mag, titanite, apatite, zircon, epidote. Radioactive zone 2,000' long, vertical depth 450;, dykes vary in width 1' to 60', ore shoots were 100' long, and averaged 6' wide. High–grade areas accompanied by hematization. | **1955**: discovered during rad surveys; dd.<br>**1956**: shaft to 372', 3 levels, u/g work.<br>**1957–59**: u/g prod at 100–200 t/d. | 200,000 at 0.065% $U_3O_8$ ***1959*** (MPS MR 12, p 240, 1967) | Resources remaining in mine workings. |
| ONT. 48 | MELL–QUIRK<br>Forefront Cons Expls L (in 1984)<br>31 F/4<br>45°08'03" 77°43'43" | Radioactive mnrls are found in coarse grained pegmatite dykes which cut a NE trending metasedimentary band. | **1956–57**: discovery, trenching, dd.<br>**1969**: dd.<br>**1975–76**: trenching and dd. | Dd–ind: 340' x 13' at 0.5 lbs/t $U_3O_8$ in North zone ***1976*** (NM 16/09/76) | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 49 | **CRAIGMONT CORUNDUM MINE**<br>Cor–o–Tex Industrial Mnrls L<br>(in 1965)<br>31 F/5<br>45•18′20″ 77•37′00″ | Corundum in Precambrian syenite. Erratic and patchy outcropping over a length of more than 1 mi. | **c 1899**: discovery.<br>**1900–08; 1909–13; 1920–21; 1944–46**: 220′ adit, numerous quarries, pits and cuts; total prod about 321,000 tons of corundum material. | 275,000 at 5% corundum ***c 1917***<br>***or*** 125,000 at 2.96% corundum ***1942***<br>(Ont AR 1942, pt 3, p 22) | Both resource estimates refer to the tailings dumps. |
| ONT. 50 | **SPAIN MINE**<br>R.L.V. Ekstrom<br>31 F/6<br>45•17′00″ 77•04′15″ | Mo in pyroxenite as well as in seams and joints in pegmatite. Py and po are present. Mo zone 200′ x 55′ x 5′. | **1912**: operation.<br>**1915–19**: operations, pits, shafts, mill.<br>**1939–40**: stripping, trenching, dd.<br>**1965–66**: sampling, dd. | Proven: 25,000 at 1.67% $MoS_2$ ***c 1966***<br>(Chesapeake L, rept Nov 1966) | More than 4 tons of molybdenum were recovered from 104 tons mined to 1919. |
| ONT. 51 | **BUCKHORN**<br>Buckhorn ML<br>(in 1943)<br>31 F/7<br>45•23′50″ 76•41′45″ | Mo as sparse flakes in bands of pyroxenite in biotite hornblende granite gneiss and crystalline limestone. Py also present with py–mo stringers up to 16″ wide. | **1939–42**: pits, trenching.<br>**1943**: dd. | Ind: 1500 at 1% $MoS_2$ ***c 1943***<br>(GSC P 51–27, p 57, 1951) | |
| ONT. 52 | **HUNT (BELGIAN) MINE**<br>Chesapeake L<br>(in 1968)<br>31 F/7<br>45•18′10″ 76•54′20″ | Mo with py and po in pyroxene or pyroxene and scapolite rocks. Zone traced for 400′ and is about 6′ wide. | **Pre–1912**: discovery.<br>**1912**: dd, dev work.<br>**1915–18**: mng operations, 25 t/d mill, 1,800′–2,000′ lateral work on 4 levels to a depth of 150′.<br>**1965**: SP, u/g sampling. | ***(i) Block A***: 8,850 proven at 0.52% Mo ***plus*** 70,000 inf, Mo, grade unstated<br>***(ii) Block B***: 32,000 proven at 0.67% Mo ***1966***<br>(Chesapeake L repts, c 1966) | About 20,000 tons of Mo ore was mined between 1915 and 1918. |
| ONT. 53 | **O'BRIEN MINE**<br>Major Molybdenite ML (in 1942)<br>31 F/7<br>45•17′20″ 76•56′40″ | A little mo, py with qtz in veinlets paralleling foliation of hybrid gneiss. Zone 200′ long, 75′ wide. | **1908**: discovery.<br>**1916**: 300 ton bulk sample.<br>**1942**: surface work and shipped 20 tons.<br>**1943**: dd. | Poss: 2,000 at 1% $MoS_2$<br>(Ont AR 1944, pt 3, p 81) | Main workings consist of 3 pits and 4 shafts. Deepest shaft 50′. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 54 | RENFREW ZINC PROSPECT<br>Breakwater Resources Ltd.<br>31 F/7<br>45°24'57" 76°42'30" | Sph and minor gal disseminated in Precambrian crystalline limestone, in bands and lenses 4" to 4' wide. Zone traced 3,300' to 1 mi over a width of 400'. Largest lens 120' x 100' x 15'. Gangue consists of calcite, tremolite, diopside. | **1922**: discovery.<br>**1925**: stripping, trenching, dd.<br>**1926**: dd.<br>**1947**: dd.<br>**1950**: dd, mill construction, mng operations.<br>**1978–89**: dd. | Prob & poss: 997,370 at 9.5% Zn ***1987***<br>(NM 16/03/87) | In 1951, 60 tons of 44% Zn were produced from 1,500 tons of ore. |
| ONT. 55 | BISSETT CREEK<br>North Coast Industries Ltd.<br>31 L/1<br>46°14' 78°04' | N/A | **1984**: discovery.<br>**1985**: dd, bulk sampling, 200 tpd pilot mill<br>**1986**: feasibility study. | Proven: 14,500,000 at 2.72% Grp ***1986?***<br>(CMH 1988–89, p 374). |  |
| ONT. 56 | MATTAWA VANADIUM–IRON<br>Questmont ML (in 1975)<br>31 L/2<br>46°13'40" 78°42'00" | Numerous conformable vanadium–bearing titaniferous mag lenses occur within a differentiated gabbro–anorthosite pluton. | **1942**: surface examination.<br>**1950**: mag survey, res est. | pot: 950,000 at c 0.75% $V_2O_5$, 7% $TiO_2$, 35% Fe, above 100' in 6 bodies ***1950***<br>(N B Keevil 07/06/50 ***in*** Prospectus, Femco ML 20/12/50) | In 1975, a firm contract of sale was sought. CMH 1974–75, p 279 states 8,000,000 tons dd–ind at 0.58% vanadium per ton. |
| ONT. 57 | MANITOU ISLANDS<br>Nova Beaucage ML<br>31 L/5<br>46°15'15" 79°34'45" | Uranium pyrochlore in either altered syenitic and pyroxenitic rocks, or carbonatite. Mag, py and po present. Great Manitou contains 20–60% apatite. | **1952–56**: discovery, sampling, dd, 50 tpd pilot mill, 442' shaft with u/g dev on 2 levels, small prod.<br>**1971–72**: mag survey, dd. | ***(i) Newman Island***: 3,596,120 dd–ind at 0.627% $Cb_2O_5$, 0.032% $U_3O_8$ ***1972***<br>(CMH 1973–74, p 261)<br>***(ii) Great Manitou Island***: 27,000 dd–ind at 0.38% $Cb_2O_5$, 0.104% $U_3O_8$, 10% $P_2O_5$ ***1953***<br>***(iii) Rankin Island***: "a major tonnage of low–grade material" ***1953***<br>(O E Owens 10/08/56 for Beaucage ML) | Minor pilot plant production 1954–56. Beaucage reported, in 1956, 1 893 000 at 0.049% $U_3O_8$, 0.86% $Cb_2O_5$ and 2 962 000 at 0.041 $U_3O_8$, 0.69% $Cb_2O_5$ in Newman zone. All tonnage 200' below lake bottom (FP Corp Serv, Nova Beaucage ML, 03/07/62). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 58 | CROCAN LAKE<br>Kyanite Mng Corp.<br>31 L/11<br>46°31′ 79°00.3′ | Kyanite in Precambrian kyanite-garnet-muscovite-biotite-quartz-feldspar gneiss. | **1951**: discovery, dd, tr. stripping. | 50,000,000 at 15%-20% kyanite ***1951 ?***<br>(Ont MDIR N0001) |  |
| ONT. 59 | ANGUS<br>Titan Iron ML<br>(in 1954)<br>31 L/14<br>46°51′24″ 79°29′55″ | Titaniferous mag occurs as elongate lenses and pods in highly altered diabase surrounded by granite. | **1931**: government mapping.<br>**1947**: geol, trenching, dd.<br>**1952**: airborne and ground geoph. | 15,000,000 at 17% $TiO_2$, 43% Fe ***1947***<br>(L & P Moyd, unpubl rept, 1956) |  |
| ONT. 60 | AJAX<br>J.P. Sheridan<br>31 M/4<br>47°06′16″ 79°50′45″ | Ni–Cu mineralization in a zone 200–400′ wide by 1,000′ long along the margin of a semi–circular peridotite. Narrow irregular veins carry these mnrls as well as Au, Ag and Pt. | **1910**: first staked.<br>**1919**: dd.<br>**1929**: platinum discovered.<br>**1933–37**: shaft to 245′ with lateral work on two levels; 3,318 tons milled yielded Cu–Ni–Au–Ag–PGE.<br>**1947–49**: geol, geoph, dd.<br>**1972**: feasibility and metallurgical tests, resource calculation.<br>**1974–76**: 500 t/d o/p prod. | Prov: 1,259,800 at 0.462 % Cu, 0.33% Ni **1989**<br>(Advertisement supplement NM 03/89) | The mine was forced to close when, on Feb. 6, 1976, Falconbridge Nickel terminated its contract to buy the concentrates.<br>C. 1,393,144 lbs Ni and 3,117,490 lbs Cu were recovered from 278,263 tons milled. Northern Platinum Ltd. option in 1989. |
| ONT. 61 | BEANLAND<br>Alex Perron<br>(in 1975)<br>31 M/4<br>47°05′28″ 79°49′35″ | Au–bearing qtz vein network in mafic metavolcanics. | **1934**: discovery.<br>**1936–37**: surface trenching, dd, shaft 505′, u/g dd, crosscutting, drifting and raising.<br>**1946**: u/g dd. | Proven & ind: 12,619 at 0.272 oz/t Au, 1.8 oz/t Ag over 5.4′ mng width ***1937*** (G R McLaren 28/04/50 ***in*** Prospectus, Clenor Mng CL, 30/06/53) | Small tonnage – little prospects. |
| ONT. 62 | DIADEM<br>Copperfields Mng Corp L (in 1970)<br>31 M/4<br>47°02′32″ 79°49′28″ | Py with minor cp, pn occurs both in disseminated and massive form in border phase of an Archean gabbro sill. | **Pre–1952**: pits, trenches.<br>**1952–56**: geoph, dd.<br>**1960**: EM.<br>**1965**: geoph.<br>**1970**: geol surveys, helicopter EM. | Poss: 500,000 at 0.5% Cu, 0.1% Ni to 400′ ***1956***<br>(Ont MRC 2, p 108, 1957) | Zone is 700′ long and probably 15′ wide. |
| ONT. 63 | HERMISTON–McCAULEY<br>Cominco L<br>31 M/4<br>47°05′55″ 79°49′40″ | Qtz veins in altered qtz diorite sill. | **1936–38**: trenching, dd, 457′ shaft, u/g drifting, crosscutting and dd.<br>**1986**: dd, sampling. | Proven: 8,998 at 0.5 oz/t Au in 3′ width ***1938***<br>(OGS MDC 18, 1979, p 25) | During u/g dev some 1,421 tons of ore were hoisted. This may be part of resource figure. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 64 | KEELEY AND FRONTIER<br>Sunmist Energy '86 Inc.<br>31 M/4<br>47•11'40" 79•30'15" | Native Ag in carbonate veins and vein fault systems in Nipissing diabase and meta-volcanics. Also present are Co, Ni and Cu. | **1907**: discovery.<br>**1908–42**: Keeley: intermittent prod 12,154,353 ozs Ag plus Co, Ni.<br>**1921–65**: Frontier: intermittent prod 7,043,060 ozs Ag plus Co, Ni, Cu.<br>**1972**: dd, minor prod.<br>**1973–74**: expl programme.<br>**1980**: bulk sampling, dd. | Proven: 50,000 at 5.4 oz/t Ag ***1974 ?***<br>(NM 18/09/80) |  |
| ONT. 65 | MANITOBA AND EASTERN<br>Stroud Res L<br>31 M/4<br>47•05'37" 79•47'50" | Discontinuous gold arsenide mnrls in qtz veins in mafic meta-volcanics. | **1909**: worked for arsenic and copper.<br>**1934–37**: dd, u/g drifting, crosscutting and dd, shaft to 525;.<br>**1984–89**: sampling, geoph, dd. | 193,000 at 0.215 oz/t Au ***1988***<br>(Stroud Res six month rept 30/06/88) | The mine was allowed to flood in 1937. |
| ONT. 66 | CLEOPATRA<br>Agnico–Eagle ML<br>31 M/5<br>47•21'58" 79•40'08" | Silver in veins in Cobalt Group sedimentary rocks and in Archean volcanics. | **1909**: discovery, shafts.<br>**1922**: u/g exploration from adjoining workings.<br>**1945**: u/g exploration.<br>**1963–70**: u/g development, main shaft to 343', prod 3,250,000 ounces Ag, some Co and Cu.<br>**1977**: minor production<br>**1987**: dd. | N/A | There are probably 70,701 tons of 9.49 ounces per ton Ag distributed in Cleopatra, Conisil and University mines. (Canacord Res. Inc, Prospectus 4/09/87, p 25). |
| ONT. 67 | COBALT LAKE<br>Agnico–Eagle ML<br>31 M/5<br>47•23'30" 79•41'08" | Silver in tailings from old Cobalt Lake Mine operations. | **1908–43**: lake drained, mine prod of c 7 million ozs Ag.<br>**1946–54**: unsuccessful attempts to drain u/g workings.<br>**1966–69**: 303,248 tons of tailings treated. | 1,000,000 at 4 oz/t Ag ***1966***<br>(Agnico ML, 1966 AR) | Average grade of tailings treated between 1966–69 was 2.98 oz/tAg and recovery 66.75%. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 68 | CONISIL<br>Agnico Eagle Mines Ltd.<br>31 M/5<br>47•22'20" 79•39'55" | Native silver and cobalt, copper, nickel minerals in narrow veins. They cut sedimentary and volcanic rocks and Nipissing diabase. | **1905**: discovery, tr, u/g work.<br>**1946–48**: shaft to 320'.<br>**1951**: u/g exploration.<br>**1960–66**: prod 100,000 ounces Ag.<br>**1973**: u/g exploration<br>**1975–1980**: minor prod.<br>**1986–88**: u/g exploration, dd. | N/A | There are probably 70,701 tons of 9.49 ounces per ton Ag distributed in Cleopatra, Conisil and University mines. (Canacord Res. Inc. Prospectus 4/09/87, p 25). |
| ONT. 69 | HARRISON MINERALS<br>Jascan Res Inc.<br>31 M/5<br>47•24'50" 79•37'17" | Native silver and cobalt and copper minerals in Cobalt Group sedimentary rocks and Archean volcanics. | **1937**: shaft sinking.<br>**1947–48**: shaft deepening<br>**1951–54**: production<br>**1963–64**: u/g work, dd.<br>**1980–82**: u/g work, production.<br>**1986–88**: u/g exploration, dd. | Prov & prob & poss:<br>41,800 at 10.02 oz/t Ag<br>***1982***<br>(Research Report. TC Coombs & Co, Jascan Res Inc, August 1987, p 44) | |
| ONT. 70 | RUBY MINE<br>Jascan Resources Inc<br>31 M/5<br>47•24'50" 79•37'15" | Silver–cobalt veins with cp in Cobalt sediments and Archean volcanics. | **1907**: shaft, u/g work.<br>**1920–31**: prod, shaft sinking, dd.<br>**1951–54**: dd, u/g work, EM, limited production<br>**1981–82**: prod.<br>**1987**: u/g exploration. | 500 mt at 35 oz/t Ag ***plus***<br>2 383 mt at 15 oz/t Ag<br>***1987***<br>(Research Report TC Coombs & Co, Jascan Resources Inc, August 1987) | |
| ONT. 71 | SILVERSIDE<br>Silverside Res Inc<br>31 M/5<br>47•24'14" 79•37'10" | Silver in veins. | **1981**: geoph, dd, discovery.<br>**1985–88**: u/g exploration, dd, 2,800' decline ramp bulk sampling, mill 80 tpd. | 1,400,000 at 44 oz/ t Ag<br>***1988***<br>(CMH 1988–89, p 414) | One sample assayed 3,880.16 oz/t Ag. International Platinum owns 50%. |
| ONT. 72 | SLATE CREEK (BIG AGAUNICO)<br>Cons Professor ML<br>31 M/5<br>47•24'20" 79•36'45" | Ag–Co veins traversing Cobalt Group series sediments. Py, cp also present. | **1952**: dd.<br>**1979**: dd and u/g expl access decline.<br>**1981–87**: 2 400' decline, dd, dewatering. | Ind: 100,000 at 0.5% Co<br>***1981***<br>(NM 31/12/81) | U/g decline intersects Co zone at 400'. Optioned by Agnico–Eagle ML. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 73 | PENN–COBALT<br>Agnico–Eagle ML<br>31 M/5<br>47°22'20" 79°40'00" | Ag–Co calcite veins within Cobalt Group sediments and Archean volcanics. Also present is a base–metals zone consisting of sph, gal, cp, py and po in chert. | **1905–56**: discovery, intermittent prod totalling 1,160,000 ozs Ag, plus Co, Ni, Cu.<br>**1951–52**: discovery of base–metal zone.<br>**1965**: further expl. | 200,000 at 2.42% Zn, 1.62% Pb, 0.38% Cu, 0.85 oz/t Ag ***1952 ?***<br>(Ont PR 1961–6, 1961, p 71-72) | A base–metals mng project planned in 1952 was cancelled due to the small tonnage and the very limited possibility of finding ore at depth. |
| ONT. 74 | UNIVERSITY<br>Agnico–Eagle ML<br>31 M/5<br>47°22'11" 79°40'13" | Native silver and cobalt, nickel, copper minerals in veins in Cobalt Group sedimentary rocks, Archean volcanic rocks and diabase. | **1905–15**: discovery, prod.<br>**1918**: shaft sinking.<br>**1920–24**: u/g exploration<br>**1939–44**: production<br>**1954**: dd.<br>**1963–69**, 71-75, 80-82: u/g exploration, production.<br>**1971–75**: u/g exploration, production.<br>**1980–82**: u/g exploration production | N/A | There are probably 70,701 tons of 9.49 ounces per ton Ag distributed in Cleopatra, Conisil and University mines. (Canacord Res. Inc. Prospectus 4/09/87, p 25). |
| ONT. 75 | AMALGAMATED LARDER<br>Golden Shield Resources Ltd.<br>32 D/4<br>48°07'02" 79°39'58" | Scattered sulphide bodies containing gold occur in the lava–tuff–carbonate horizon of the Larder Lake 'break'. The horizon extends across the property for 3.5 mi. | **1922–47**: surface and u/g dd, shafts to 1,083', 547' and 404', considerable drifting and crosscutting.<br>**1975**: dd.<br>**1978–89**: dd, u/g exploration. | ***(i) Cheminis***: 2,500,000 dd–ind. at 0.117 oz/t Au<br>***(ii) Ferland***: 50 000 dd–ind at 0.15 ozét /Au<br>***(iii) Barber–Larder***: 82,000 at 0.163 dd–ind 1987 (Golden Shield Res Ltd, 1987 AR)<br>***(iv) North Carbonate***: 1,000,000 poss at 0.115–0.20 oz/t Au ***1988*** (Rockford Minerals Inc, 1988 AR) | Production from Barber Larder zone. Rockford Minerals Inc. has interest. |
| ONT. 76 | ANOKI<br>Inco Gold Co & Queenston GML<br>32 D/4<br>48°07'39" 79°50'11" | Silicified rock with py cut by qtz stringers contains gold. | **1916–37**: discovery, dd.<br>**1938–40**: shaft to 754', u/g expl.<br>**1987–88**: decline ramp, bulk sampling. | 600,000 at 0.15 oz/t Au ***1987***<br>(Queenstone Gold Mines Ltd. 1987 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 77 | ARMISTICE<br>Armistice Resources Ltd.<br>32 D/4<br>48°06′18″ 79°36′06″ | Gold in qtz veins and lenses in shear zones. | **1906–10**: Surface exploration<br>**1937–41**: stripping, dd.<br>**1945–48**: dd, shaft 1,281′, 8 levels.<br>**1951**: dd.<br>**1974**: dd.<br>**1987–89**: shaft rehabilitation & sinking, dd, u/g exploration. | 75,000 grade unstated Au ***1946***<br>(Armistice Resources Ltd, 1987 AR) |  |
| ONT. 78 | BOSTON MOLYBDENUM<br>Boston Molybdenum ML (in 1972)<br>32 D/4<br>48°01′40″ 79°58′20″ | Finely disseminated and erratic heavy flakes, streaks and patches of mo in qtz–carbonate veins within syenite porphyry. | **1942**: surface work.<br>**1966**: trenching, pitting.<br>**1980**: geoph, dd.<br>**1981**: tr, sampling, dd. | 1,800′ x 8′–55′ at 0.38%–1.08% Mo ***1966***<br>(NM 28/07/66) | Lampe Res CL held the property C1985. |
| ONT. 79 | CRESTLAND<br>Pyx L (in 1978)<br>32 D/4<br>48°09′24″ 79°50′48″ | Auriferous qtz veins in syenite porphyry close to contact with sediments. | **1920–29**: shaft sunk to 1,020′ with 4 levels, dd.<br>**1944–49**: dd, trenching. | 750′ x 2′ at 0.21 oz/t Au ***1949***<br>(FP Surv Ms 1954, p 235) | U/g work encountered discontinuous gold mineralization. |
| ONT. 80 | GLENORA<br>Seal Cove Corp (in 1987)<br>32 D/4<br>48°09′00″ 80°00′00″ | Gold in vein. | **1924**: shaft<br>**1936–37**: shaft 465′, some ore hoisted.<br>**1945**: dd.<br>**1972–73**: tr.<br>**1979**: mag survey.<br>**1983**: u/g exploration, dd. | 5,000 at 0.2 oz/tAu ***1983?***<br>(Kirkland Lake Resident Geologist office). |  |
| ONT. 81 | KENNEDY–BOSTON<br>Shenandoah Res L<br>32 D/4<br>48°00′30″ 79°53′00″ | Gold with py, cp in veins in basic lavas and felsic and porphyritic rocks. | **1919, 1920**: discovery, shaft, u/g exploration.<br>**1983, 1984**: u/g sampling, dd. | Dd–ind: 500,000 at 0.32 oz/t A ***1984***<br>(CMH 1988–89, p 408) | About 25% of tonnage might be in the adjoining Searles property. |
| ONT. 82 | LAFOND<br>Maple Mountain Res. Ltd. (in 1987)<br>32 D/4<br>48°00′03″ 79°39′20″ | Gold with py, mo, cp and tellurides in qtz veins and stringers in Precambrian granite. | **1914**: dd.<br>**1919**: shaft 112′.<br>**1927–28**: shaft to 530′.<br>**1991**: dd.<br>**1960–62**: dd.<br>**1983–84**: stripping, dd. | 33,000 tons containing 4,600 ounces Au ***1984***<br>(Maple Mountain Res. Ltd 1984 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 83 | MARTIN–BIRD<br>International Thunderwood Expls L (in 1983)<br>32 D/4<br>48°03'12" 79°39'58" | Au along edges of qtz–carbonate veins and also in sulphides in altered Timiskaming greywacke. | **1933–39**: 2 shafts both to 401', u/g and surface dd, drifting, crosscutting.<br>**1972–74**: dd, mill tests.<br>**1977**: feasibility study on possibility of leaching Au or shipping to Kerr Addison mill – results N/A.<br>**1980**: trenching, dd.<br>**1982**: geochem, geoph. | Ind: 558,000 at 0.114 oz/t Au ***plus*** 158,000 at 0.20 oz/t Au ***1982*** (CMH 1981–82) ***or*** 1,000,000 at 0.07 oz/t Au ***1986*** (Kirkland Lake Resident Geologist office). | Access road, bridge and soil stripping done in preparation for o/p mining in a joint venture with Lac Mnrls L who planned to drill early in 1983. |
| ONT. 84 | Mc BEAN<br>Queenston GML, Inco Gold Co.<br>32 D/4<br>48°07'38" 79°49'05" | Gold in carbonate–altered phases of felsic to mafic tuffs and syenite intrusives in association with quartz-filled fractures and minor pyrite. | **1928**: dd, No. 1 shaft 650'; No. 2 shaft 100', u/g work.<br>**1941**: dd, No. 2 shaf to 272', u/g expl, bulk sampling.<br>**1946–47**: u/g work, dd, No. 4 shaft.<br>**1950–51**: u/g work, dd.<br>**1960, 69**: geol, dd.<br>**1982–84**: dd, o/p dev.<br>**1984–86**: o/p prod, 45,900 oz Au from 557,621 tons mined. | N/A | Gold zone continues to at least 1,200' below open pit bottom. |
| ONT. 85 | McCREA (MARSHALL)<br>Marshall Mnrls Corp<br>32 D/4<br>48°02' 79°56' | Au in two parallel irregular qtz veins in shear zone in metavolcanics. | **1939**: stripping, trenching.<br>**1962–80**: idle.<br>**1981**: dd.<br>**1982**: sampling.<br>**1983**: stockpiling. | Dd–ind: 220 000 at 0.137 oz/t Au ***or*** 89 000 at 0.237 oz/t Au ***1983*** (Marshall Mnrls Corp, 1982 AR, 1983 Update) | Leased to HGQ Inc who in 1962 sent 610 t at 0.3 oz/t Au to Kerr Addison mill. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 86 | OMEGA<br>Greater Lenora Resources Corp<br>32 D/4<br>48°07'06" 79°41'55" | Gold ore mainly in two narrow dacite lava flows as well as in dolomite, within Larder Lake "break" carbonate chlorite schist. | **1914–28**: discovery, shafts to 1,050' and 1,200', prod.<br>**1936–48**: No 1 shaft to 1592' and winze to 2,000', total prod, incl earlier work, of 1,615,000 tons.<br>**1950**: dd.<br>**1966–73**: stripping, trenching, dd.<br>**1980–81, 1984**: geoph, dd, sampling 1,992' dd, feasibility study.<br>**1986**: dd, bulk sampling 40,000 tons. | 269,934 at 0.160 oz/t Au ***1984***<br>(Greater Lenora Resources Corp 1988 AR) | Tailings contain 200,000 tons at 0.15 oz/t Au. Considering heap leach treatment. |
| ONT. 87 | PAWNEE–KIRKLAND<br>Queenston Gold Mines Ltd.<br>32 D/4<br>48°08'47" 79°56'47" | Gold in quartz stringers in sheared trachyte with pyrite. | **1927**: shaft 780', u/g exploration, 6 levels.<br>**1933**: u/g exploration, dd.<br>**1963**: IP, dd.<br>**1966**: u/g exploration, dd. | 23,124 tons grade unstated ***1936***<br>(Regal Kirkland Gold, Letter June 10, 1936). | In 1936 contained gold was valued at $340,389.00 |
| ONT. 88 | RAVEN RIVER (LAGUERRE)<br>R A MacGregor<br>32 D/4<br>48°06'04" 79°42'34" | Algoman dykes and irregularly shaped intrusive bodies intrude Timiskaming rocks. Auriferous qtz veins occur in altered syenite intrusions. | **1906**: first discovery of gold in Larder Lake area.<br>**1912–13**: shaft, small prod.<br>**1931–39**: 75 t/d mill erected, shaft deepened to 716', 40,514 tons milled between 1937–1939.<br>**1947**: Laguerre shaft to 778'.<br>**1970–76**: EM, mag, dewatered and rehabilitation Raven River shaft, 6,580' in 65 u/g ddh's.<br>**1978**: dd on Knutson and Raven River zones.<br>**1980–86**: dd. | ***(i) Raven River***: 11,000,000 at 0.05 oz/t Au to 2,000' ***1939***<br>(R A MacGregor 10/01/78, written commun)<br>***(ii) Laguerre***: 50,680 at 0.128 oz/t Au<br>***(iii) Knutson***: 26,100 at 0.205 oz/t Au **1978**<br>(Sudbury Contact ML, 1978 AR)<br>***(iv) Island Zone***: 113,000 at 0.09 oz/t Au<br>(Sudbury Contact ML, 1986 AR) | Sudbury Contact ML optioned the property and has conducted the work since 1975. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 89 | ROYADO (CATHROY)<br>Royado ML<br>32 D/4<br>48°00'50" 79°49'45" | Au in narrow py, qtz–carbonate, qtz–tourmaline and qtz seams in sheared, silicified and carbonatized agglomerate. | **1938–48**: 540' shaft with 4 levels, u/g and surface dd, about 22,000 tons milled.<br>**1957**: minor prod.<br>**1960–64**: shaft dewatered, workings remapped, u/g and surface dd.<br>**1980–84**: mapping geoph, dd, stripping, dd, installed portable plant.<br>**1986**: u/g exploration, dd.<br>**1987**: production 20,000 tons from u/g 50,000 tons from o/p. Grades 0.12 to 0.17 ounce per ton Au. | 345,000 at 0.34 oz/t Au ***1987***<br>(NM 09/11/87). | Golden Shield Resources carried out mining until 1987. |
| ONT. 90 | SHELDON–LARDER<br>Armistice Resources Ltd.<br>32 D/4<br>48°07'10" 79°36'05" | Gold in qtz veins or stockworks in carbonate zones within basic dykes and shear zones. | **1908**: surface work, minor prod.<br>**1937–38**: surface dev, dd.<br>**1974–75**: deep dd, u/g drive from Kerr Addison.<br>**1984–86**: tr, dd. | 121' x 3.25' at $7.40/t Au plus 3 shoots 100'–200' x 2'–10' at $3/t Au ***1938***<br>(Ont AR 1941, pt 7, p 91) |  |
| ONT. 91 | UPPER BEAVER<br>Queenston GML<br>32 D/4<br>48°10'04" 79°46'01" | Cp, mag, py occur in narrow shear zones largely within a syenite porphyry. Some native Au is present but most Au is associated with sulphides. | **1912–44**: shaft to 520', winze to 1250', intermittent prod, 131,585 tons milled.<br>**1950–51**: geoph, dd.<br>**1961–62**: surface dd, some u/g work.<br>**1965–72**: 448,977 tons milled at Upper Canada's mill.<br>**1973–74**: geoph, dd.<br>**1985**: geoph, geol. | 75,500 at 0.24 oz/t Au, 1.35% Cu ***1972***<br>(Upper Canada Res L, 1973 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 92 | UPPER CANADA MINE<br>Queenston GML<br>32 D/4<br>48°08'28" 79°49'22" | The Larder Lake 'break', which consists of a carbonate chlorite schist zone, cuts Timiskaming volcanic and sedimentary rocks. Au occurs in silicification frac-tures and in py within the 'break'. | **Early 1920s**: trenching.<br>**1928–29**: shaft to 135'.<br>**1936–37**: u/g dev resumed.<br>**1938–71**: milling of 4,734,617 tons of ore, shaft sunk to 6,296'.<br>**1980, 1981, 1984**: surface mapping, geoph, dd, str. | Prov and dd-ind:<br>640,000 at 0.265 oz/t Au<br>***c 1971***<br>(CMH, 1982–83, p 279) | Resources are calculated from 6,150' (which was the mine's deepest level) to 6,650'. Mng ceased in 1971 due to the low prevailing prices. 1981 dd showed "M" & "Q" to be extensive zones grading 0.10 to 0.13 oz/t Au. Mill was used to process ore from McBean mine. |
| ONT. 93 | WADGE<br>Canper Res Inc.<br>32 D/4<br>48°12'10" 79°37'55" | Gold in qtz ankerite veins in Archean syenite. Metallic minerals include py, cp, galena, and tellurides. | **1919**: tr.<br>**1923–24**: dd.<br>**1925–29**: shaft 535', u/g exploration.<br>**1939**: dd.<br>**1960–63**: dd. | 20,000 at 0.54 oz/t Au<br>***1984?***<br>(Canper Res Inc. Prospectus 1986) |  |
| ONT. 94 | BAMBI<br>Bambi Mines Ltd.<br>(in 1970)<br>32 D/5<br>48°27'42" 79°49'50" | Gold in qtz vein breccia. | **1937**: dd.<br>**1945–47**: dd. | 300' x 4' at 0.06 oz/t Au<br>***1947?***<br>(Ont MRC 13 p 127) |  |
| ONT. 95 | BUFFONTA<br>Silverside Resources Inc.<br>32 D/5<br>48°28'34" 79°56'46" | Minutely fractured basalt contains Au in qtz–carbonate veinlets. | **1919–35**: trenching, stripping.<br>**1936–47**: dd, o/p reached 80' x 60' x 30'; 50 t/d mill erected; 37 ozs Au recovered.<br>**1981**: prod 57,964 at 0.138 oz/t Au.<br>**1983, 84, 87**: dd, geochem, geoph. | 85,000 at 0.286 oz/t Au<br>***1944***<br>(Ont AR 1949, Pt 4, p 22)<br>Note: subtract the 1981 prod from the above | Part of Garrison Township deposit. |
| ONT. 96 | COIN LAKE<br>Willanour Resources Ltd<br>(in 1985)<br>32 D/5<br>48°28'25" 79°45'25" | Py, gal in mafic volcanics and also in qtz zone within the volcanics. | **1917**: pitting, shaft to 48'.<br>**1945**: dd. | 200' x 2.5' at 0.25 oz/t Au ***1945***<br>(Ont AR 1951, Pt 7, p 27) | A 1,820 lb sample averaged 0.7 oz/t Au. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 97 | GARRISON TOWNSHIP<br>Silverside Resources Inc<br>32 D/5<br>48°28'30" 79°45'00" | Gold in/or associated with quartz carbonate veins. | **1983**: geochem, discovery.<br>**1984**: dd.<br>**1987–88**: dd. | Dd–ind: 600,000 at 0.18 oz/t Au ***1988***<br>(Silverside Resources Inc. 1988 AR) | In partnership.with Lac Minerals Ltd. |
| ONT. 98 | HARKER<br>Greater Lenora Resources Ltd.<br>32 D/5<br>48°27'50" 79°46'50" | Fault–fissure vein 6–12' wide and 3,000' long, roughly parallel to basaltic flows. Native Au and also Au in py. | **1924–29**: 5 level No 1 shaft to 1,000', drifting, crosscutting, dd, No 2 shaft to 58'.<br>**1960**: a little surface expl.<br>**1984–89**: dd, u/g exploration, ramp to 500'. | 500,000 at 0.16 oz/t Au ***1987***<br>(Greater Lenora Resources C orp 1988 AR) | Development ore for 1987–88 milled at Holt–McDermott mine. |
| ONT. 99 | HARLIGHT<br>Tumac Mng & Dev CL (in 1965)<br>32 D/5<br>48°28'45" 79°47'00" | Qtz stringers containing py, cp, gal, Au in rhyolite. | **1933**: dd.<br>**1941–47**: mag, dd.<br>**1961**: surface work. | 1,200' x 6' at 0.144 oz/t Au ***1933***<br>(Ont AR 1951, Pt 7, p 34) |  |
| ONT. 100 | IRIS<br>Perrex Res Inc.<br>32 D/5<br>48°27'26" 79°46'12" | N/A<br>Zone 3,000' long. | **1987**: stripping, tr, dd. | 1,200,000 at 0.06 oz/t Au ***1988***<br>(NM 6/03/89)) | Significant tungsten concentrations. |
| ONT. 101 | BEN–ARCH (WORVEST)<br>American Barrick Res. Corp<br>32 D/12<br>48°30'31" 79°45'24" | Finely disseminated gold with py in silicified and carbonatized structure. | **1984–88**: geoph, dd, u/g exploration. | Prob & pot & poss: 1,520,000 at 0.134 oz/t Au ***1987***<br>(Lenora Explorations Ltd 1987 AR) | Possible extension of the McDermott zone. Drift driven from Holt–McDermott mine. Also known at the Worvest option and to be mined from Holt–McDermott. |
| ONT. 102 | BIRD–GINN (MATHESON)<br>Johns–Manville Can Inc<br>(in 1986)<br>32 D/12<br>48°31'35" 79°57'50" | Ultrabasic peridotite hosts the asbestos orebody. | **1950–52**: dd, geoph survey.<br>**1968–70**: expl shaft to 314', u/g dev and dd, surface dd, concrete bulkhead, feasibility study incomplete. | Ind: 25,000,000 Asb, grade unstated ***1970 ?***<br>(Johns–Manville Corp, 10–K, 31/12/74)<br>***or*** 33 Mt at 9.75% Asb ***1981***<br>(P A R Brown, oral commun, 23/04/81) | Ready for dev to prod when needed. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 103 | EAST 42 – ZONE<br>Canamax Resources Inc.<br>32 D/12<br>48°31'44" 79°40'00" | In the Destor–Porcupine fault. | **1984–85**: discovery, dd.<br>**1987–88**: u/g exploration, ramp, bulk sampling, prod. 5,391 ounces Au, dd. | Prov & prob: 65 000 mt at 6.0 g/mt ***1988***<br>(Canamax Res Inc. 1988 AR) | Mining to resume in 1990 or 1991. |
| ONT. 104 | GARRCON<br>Jonpol Explorations Ltd.<br>32 D/12<br>48°32'17" 79°56'11" | Qtz veins in Archean greywacke. | **1935–37**: shaft, dd.<br>**1983**: dd.<br>**1986–88**: dd. | 1,500,000 at 0.04 oz/t Au to 200' ***1986***<br>(Jonpol Explorations L 1987 AR) |  |
| ONT. 105 | MATAWASAGA<br>American Barrick Resources Corp.<br>32 D/12<br>48°31'18" 79°42'11" | Gold in silicified and carbonatized rock. | **1976–83**: geol, geoph, dd.<br>**1984**: discovery.<br>**1985–88**: dd. | 1,776,000 at 0.123 oz/t Au ***1988***<br>(CMH 1988–89 p 92) | Drift from Holt–McDermott mine to reach this area in 1989. |
| ONT. 106 | NEWFIELD<br>Jonpol Explorations Ltd.<br>32 D/12<br>48°30'39" 79°57'03" | Gold in albite–sericite–py–asp zone in metavolcanic Komatiitic rocks. | **1946**: dd.<br>**1987**: dd.<br>**1989**: starting u/g work, shaft. | Dd–ind: 1,300,000 at 0.23 oz/t Au ***1988***<br>(Jonpol Explorations Ltd. 1989 AR) |  |
| ONT. 107 | THREE STAR<br>Greater Lenora Resources Corp.<br>32 D/12 | N/A | N/A | 750,000 at 0.15 oz/t Au ***1988***<br>(NM 3/10/88) | Next to Ben Arch and McDermott mine. To be mined from the McDermott to which it is connected by drifts. |
| ONT. 108 | CASE<br>Dey L (?) (in 1975)<br>32 E/4<br>49°02' 79°56' | A complex pegmatite dyke containing spodumene. | **Pre–1960**: surface work.<br>**1975**: trenching, dd, 4 km road being built. (?) | 825' x up to 100' at 10–15% spodumene ***1960 ?***<br>(Ont GR 8, p 45, 1962) | Dey L planned in 1976 to mine feldspar and mica from a pegmatite dyke in this area – possibly this dyke. |
| ONT. 109 | FOSTUNG<br>Breakwater Resources Ltd.<br>41 I/4<br>46°14'17" 81°38'38" | Scheelite, powellite, po, py, cp, sph, mo and asp dis in qtz veins and skarn within carb and clastic sediments. | **1966–67**: geol and mag survey, 6 ddh, 3079'.<br>**1980**: dd 6,000'.<br>**1981**: 43 ddh 8,302 metres.<br>**1984**: geol, dd. | 13,426,000 at 0.23% tungsten, 0.016% molybdenite ***1981?***<br>(CMH 1988–89 p 345) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 110 | HALLAM<br>Consolidated Bellekeno Mines Ltd. (in 1968)<br>41 I/4<br>46°13'16" 81°53'05" | Cp in veins cutting breccia in greywacke and quartzite. | **Pre–1966**: EM, tr.<br>**1967–68**: dd. | 100' x 3' to 120' depth at 3% Cu ***1968***<br>(Ont MRC 12, p 247) | A small isolated zone. |
| ONT. 111 | McMILLAN<br>Mill City Gold Inc.<br>41 I/4<br>46°08'27" 81°47'50" | Gold in qtz veins in Precambrian greywacke and argillite. Sulphs include asp, po, cp, py. | **1920, 1927**: exploration.<br>**1934–37**: prod 10,593 oz Au from 60,137 tons.<br>**1960–61**: tr, sampling, mag, dd.<br>**1978–79**: EM, dd.<br>**1985**: shaft dewatered. | 500,000 at 0.18 oz/t Au to 525' ***1985***<br>(NM 09/09/85) |  |
| ONT. 112 | OWEN PROSPECT (MONGOWIN PLUTON)<br>F Owen & Assocs (in 1980)<br>41 I/4<br>46°11'11" 81°48'00" | Po, cp and py dis in ultramafic phase of a 2,600' by 2,400' Middle Precambrian composite pluton. | **1929–36**: discovery, trenching, sampling, mag survey.<br>**1937**: minor dd.<br>**1951–52**: EM survey, dd.<br>**1956**: dd. | 92,610 at 0.53% Ni, 0.27% Cu, undiluted, to max 350' ***1970***<br>(MPS RF, J F Owen) | A subsequent review of the method of resource calculation suggested that both tonnage and grade had been overstated. |
| ONT. 113 | AGNEW LAKE<br>Kerr Addison Mines Ltd.<br>41 I/5<br>46°25'50" 81°37'38" | Uranium in folded and faulted conglomerate of Precambrian Huronian Supergroup. Ore zone minerals include py, rutile, po, uranothorite, monazite, brannerite, anatase, cp, gal, zircon. | **1953–55**: discovery, staking, dd.<br>**1965–66**: dd.<br>**1967–70**: shaft 3,411', dd, u/g work.<br>**1974–75**: leach testing.<br>**1977–83**: prod 1,954 lbs $U_3O_8$. | N/A |  |
| ONT. 114 | BRISMIL<br>Spanish River ML (in 1975)<br>41 I/5<br>46°21'55" 81°45'29" | Cp, py and po in nearly vertical body 1,500' long by 650' deep within Pre-Huronian qtzites and conglomerates. Mineralization in highly siliceous matrix. | **1929**: trenching, 5,665' dd.<br>**1955–56**: trenching, 7321'dd.<br>**1962–65**: 14 ddh totalling 7193'.<br>**1967–70**: dd, shaft to c 400', prod of 14,316 tons Cu–Ag–Au ore from main zone. Mine put on standby in 1970. | Dd–ind: 1,094,300 at 1.49% Cu<br>(Spanish River ML 23/04/68 prospectus)<br>***plus*** 1,000 T/VF at c 2.35% Cu over 11' x 1,000', west of main zone.<br>***1968***<br>(Ont SMDR 000833, 1971) | The highly siliceous Cu ore was considered as smelter flux before Kidd Copper (operator) and Spanish River, both surrendered their charters. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 115 | ELLA LAKE (FENSOM)<br>Cam ML (in 1972)<br>41 I/5<br>46°18'12" 81°32'26" | Mineralization concentrated in a wedge between 2 faults in Mississagi greywackes and qtzites intruded by diabase. Sph with lesser cp, py and po enclose or replace greywacke fragments. | **1928**: trenches, 4 ddhs.<br>**1952**: geochem survey, 29 ddh.<br>**1972**: mag and VLF–EM surveys. | Dd–ind: 156,000 at 5.17% Zn, 0.30% Cu ***plus*** 49,000 at 4.8% Zn in narrow zones ***1952*** (Teck–Hughes GML, 1952 AR) | The larger tonnage occurs over a width of 8.86'. Mineralization has been found to a depth of 600'. |
| ONT. 116 | MASSEY–TINTINA (ALEXANDER)<br>Tintina ML<br>41 I/5<br>46°16'36" 81°58'30" | Cp occurs in fractures and massive lenses within an EW trending highly silicified fault zone where in contact with andesitic volcanics. | **1967**: surface work, dd.<br>**1974**: Devon Res L have erected a 100 t/d mill.<br>**1979–80**: 200 tons shipped, feasibility study begun.<br>**1986–87**: dd, sampling. | Dd–ind: 184,984 at 1.84% Cu to 300' depth ***1967*** (J W MacLeod 31/01/79 rept for Tintina SML ***in*** VSE SMF 24/01/80) ***plus*** 4,000,000 at 86.08% $SiO_2$ ***1986*** (Tintina Mines Ltd., 1986 AR) | Exador Resources Inc. has interest. Test on 200–ton bulk sample of siliceous copper ore found it satisfactory as a fluxing material. |
| ONT. 117 | NORANDA SHAKESPEARE<br>Broulan Reef ML (in 1968)<br>41 I/5<br>46°20'30" 81°49'50" | Cp, po, py with minor gal and chalcocite in a fault zone cutting sediments. | **1920**: trenching.<br>**1956**: surface work, geoph, dd.<br>**1968**: geoph, dd. | 1900' x 10' at 0.97% Cu ***1956*** (Ont MRC 2, p 97, 1957) | Drilling in 1968 found the sulphide distribution to be irregular. |
| ONT. 118 | SUDBURY SHAKESPEARE<br>Falconbridge L<br>41 I/5<br>46°21'00" 81°49'47" | Po, cp and pn occur as blebs and stringers in highly–sheared Nipissing gabbro. At surface the mineralized zone is about 2,500' x 20'–160'. | **Pre–1920**: discovery.<br>**1920**: trenching.<br>**1942–46**: geoph, dd.<br>**1951**: additional dd. | 3,000,000–4,000,000 at 0.34% Ni, 0.40% Cu with minor U, Pt, Pd, Re and Au ***1951*** (Ont GR 139, p 42, 1976) | Located 40 mi W–SW of Sudbury. |
| ONT. 119 | GERTRUDE<br>Inco Ltd.<br>41 I/6<br>46°27'32" 81°13'35" | Mineralization of the breccia type with sulphides cementing fragments of norite and volcanic rocks. | **1892**: discovery.<br>**1899–1903**: test pits, adit, shafts to 80' and 60', 100–150 t/d smelter. | Ind: over 500,000 Ni–Cu, grade unstated ***1903*** (Royal Ont Ni Comm, p 47, 1917) | The mineralization zone is over 3,100' long. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 120 | LONG LAKE GOLD MINE<br>Haultain Res L (1986)<br>41 I/6<br>46°18′22″ 81°08′48″ | Tailings pond. In the mine the ore consisted of auriferous qtz veins in sheared metasandstone. | **1908–17**: u/g dev, mng.<br>**1934**: 200-ton ore tailings mill built but did not operate.<br>**1936–39**: 75 ton mill erected, u/g and surface prod.<br>**1972–73**: feasibility study conducted on recovery of gold from tailings, surface expl, dd.<br>**1987**: dd. | 250,000 at 0.072 oz/t Au in tailings ***1972***<br>(Ont OFR 5156, p 192, 1975) | Total tonnage recorded milled from the mine was 221,070 with 56 925 ozs Au and 658 ozs Ag recovered. Pronto Explorations Ltd. has a 70 % option in 1989. |
| ONT. 121 | McVITTIE–GRAHAM<br>Conwest Exploration Ltd.<br>41 I/6<br>46°26′05″ 81°18′35″ | Disseminations to stringers of po, pn and sph in qtz diorite about 1,000′ above the lower contact. | **1944**: property acquired.<br>**1960–61**: 6 ddhs.<br>**1969–70**: 22 ddhs, metallurgical tests. | 4,300,000 at 0.52% Ni, 0.33% Cu ***1969***<br>(Conwest Exploration Co Ltd. 1988 AR) | The metallurgical study indicated that mng was not feasible at that time and the property has remained idle. Falconbridge Ltd. option. |
| ONT. 122 | TOTTEN<br>Inco Ltd.<br>41 I/6<br>46°22′43″ 81°27′35″ | Sulphides concentrated in central parts of Worthington qtz diorite where intense crushing took place. Mineralization incls po, pn, cp, gersdorffite and niccolite. | c **1885**: 90′ shaft.<br>**1906–07**: shaft dewatered, small smelter erected, mng.<br>**1928–29**: geol mapping and dd.<br>**1964–72**: No 1 shaft to 1,057′, No 2 shaft to 4,134′, u/g dev; prod 1966–70: 969,779 tons processed at Clarabelle mill. | N/A Ni–Cu | Totten No 1 was mined out and No 2 was put on standby in 1972. It was slated to produce at 1,500 t/d. |
| ONT. 123 | WORTHINGTON MINE<br>Inco Ltd.<br>41 I/6<br>46°23′01″ 81°26′50″ | Disseminated to massive po, pn and cp with niccolite and gersdorffite in groundmass of qtz diorite dyke. | **1884**: discovery, 60′ shaft.<br>**1890–94**: mng operations.<br>**1902–27**: dewatered, u/g dev in 3 shafts, u/g dd, more than 999,958 tons were hoisted. | N/A Ni–Cu | The mine was forced to close in 1927 due to a disastrous cave–in. No further work has been reported. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 124 | WANAPITEI<br>Northern Kyanite ML (in 1959)<br>41 I/7, 10<br>46°30'01" 80°42'30" | Kyn–gnt–bio–qtz–feldspar gneiss over 400' wide by 1/2–3/8 mi long. Kyn crystals, either banded or prismatic, range from 1/4–4" long and 1/16–1/2" wide. | **1952–59**: staked, dd, bulk sampled, process and marketing researched. | Dd–ind: 6,000,000 at 13.71% kyn to 100' depth 1958<br>(CMH 1959, p 167) | Of the total, showing C has an indicated tonnage of 1,965,394 at 18.27% kyn over 2,000' x 140'. |
| ONT. 125 | ALWYN PORCUPINE–BURDA<br>Ike Burus Metals Inc.(in 1986)<br>41 I/10<br>46°42'05" 80°37'48" | Sulphide mineralization in qtz carbonate veins within Gowganda Fm conglomerate. | **1902**: 186' shaft with 2 levels and 165' drifting, 40' shaft.<br>**1939–42**: small dev.<br>**1949–50**: dump sampled, dd.<br>**1956**: dd.<br>**1959**: dd.<br>**1981**: dd.<br>**1983**: geoph, geol, tr, sampling, shaft dewatered.<br>**1986**: dd. | 600' x 15' at 0.22 oz/t Au, 0.42% Cu ***1951***<br>(Ont GR 2, p 28, 1960)<br>***plus*** in dump: 7,000 at 0.196 oz/t Au, 2.99% Cu ***1949***<br>(E K Fockler 01/06/49 ***in*** Alwyn Porcupine ML, Info Bull, May 1950) | The resource est for the dump is based on 11 spaced samples.<br>Au-bearing material from dump was shipped to custom mill in Gogoma area in 1980. |
| ONT. 126 | FALCON GOLD MINE<br>Falcon GML (in 1937)<br>41 I/10<br>46°34'05" 80°44'15" | Auriferous py in talc–actinolite shear zone within calcareous sediments. | **Pre–1934**: shaft to 46', crosscut.<br>**1934–37**: deepened shaft to 215', dd. | 18 000 at $11.30/t Au to 200' ***1935***<br>(NM 19/09/35) | Au at $US 35/oz. |
| ONT. 127 | FALCONBRIDGE TWP<br>Inco Ltd.<br>41 I/10<br>46°35'22" 80°45'50" | Po and cp occur in the greenstone at the greenstone–norite contact. | **c 1900**: dd.<br>**1955**: systematic dd. | 'Proven': 1,000,000,000 Ni–Cu, grade unstated ***c 1915***<br>(Royal Ont Ni Comm, p 48, 1917) | Inco drilled deposit in 1955 but did not release any results. |
| ONT. 128 | KELLY–K<br>Summit Expls & Hldgs L (in 1970)<br>41 I/10<br>46°43'02" 80°33'10" | Four qtz carbonate veins within gabbro intruded into Gowganda sediments. | **1964**: EM survey.<br>**1966**: mag and SP surveys, dd totalling, 1,752'. | 330' x 1.5' at 5.18% Pb, 0.75% Cu, 0.09 oz/t Au, 1.0 oz/t Ag ***1966***<br>(Ont MRC 12, p 252, 1969) | Mineralization diminished with depth. No tonnage estimate was given post drilling. |
| ONT. 129 | LINDSLEY<br>Falconbridge L<br>41 I/10<br>46°33'30" 80°59'25" | Probably po, pn and cp at the contact of norite and gabbro with mafic volcanics. Part of the Sudbury Irruptive. | **1886–1937**: work record N/A.<br>**1950s**: extensive dd.<br>**1970–71**: shaft sunk 270', u/g dev halted.<br>**1987–89**: dd, shaft 900 m deep. | 7,000,000 Mt at 1.6% Ni, 1.5% Cu ***1989***<br>(NM 31/08/89) | Development was stopped October 1971 due to prevailing economic conditions. Values in cobalt, gold, platinum, and palladium. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 130 | MACKENZIE MINE<br>Pelangio–Larder ML<br>41 I/10<br>46°33'30" 80°59'25" | Qtz stringers in conglomerate and greywacke. | **1897**: 2 shafts to 35' and 100'.<br>**1935**: drifting in deeper shaft, mill erected, 45 tons milled yielded 8.1 oz Au and minor Ag. | Ind: 7,692 at 0.87 oz/t Au ***1935***<br>(CMH 1935, p 147) |  |
| ONT. 131 | NICKEL RIM MINE<br>Falconbridge L<br>41 I/10<br>46°40'25" 80°48'15" | Po, pn, cp and py as massive or breccia sulphides in qtz diorite along norite–granite contact. | **Pre–1901**: discovery, trenching.<br>**1914–18**: o/p mng.<br>**1929–30**: shaft sinking, u/g dev, deep dd, mag survey.<br>**1942–47**: extensive dd.<br>**1950–52**: u/g dev, mill erected.<br>**1953–58**: 14,068,600 lbs Ni and 6,128,000 lbs Cu recovered from 1,276,633 tons milled. | In place & broken: 747,624 at 0.35% Cu, 0.90% Ni ***1958***<br>(Nickel Rim ML, 1958 AR) | Falconbridge acquired the property in 1964 and no further work has been reported. |
| ONT. 132 | SKEAD GOLD MINE<br>41 I/10<br>46°39'58" 80°44'40" | Qtz, carb, sulphs, Cu, Au at contact of quartzite and argillite. | **c1933**: tr, pitting, shaft 165', u/g work.<br>**1946**: u/g work, sampling. | (i) West shoot: 60' x 4' at 0.39 oz/t Au, 0.20% Cu<br>(ii)Central shoot: 50' x 6.1' at 0.27 oz/t Au, 0.62% Cu<br>(iii) East Shoot: 60' x 5.8' at 0.198 oz/t Au ***1946***<br>(Ont MDC 18, 0 74) |  |
| ONT. 133 | SUDORE (WANAPITEI BASIN)<br>Orofino Res L<br>41 I/10<br>46°38'30" 80°37'10" | Au bearing qtz fissure veins in sediments and sulphide mineralization in gabbro. Ore mnrls incl py, po, cp, asp and Au. | **1933–34**: tr, dd.<br>**1944–45**: dd.<br>**1972–73**: EM geoph, dd, geol. | 42,000 at 0.37 oz/t Au ***1945?***<br>(Ont. MDC 18, p 82). | The Norstar and Scadding mines are nearby. |
| ONT. 134 | COLEMAN MINE<br>Inco Ltd<br>41 I/11<br>46°40'35" 81°20'12" | Assumed to be similar to other deposits in Sudbury Irruptive area – probably an extension of the Strathcona orebody. | **1964**: drilling, crosscutting from Strathcona No 2 shaft, dd.<br>**1970–80**: prod. | Lower Coleman: 5,700,000 at 1.26% Ni, 1.1% Cu ***1988?***<br>(CMJ June 1988, p 38) | To resume production in 1990. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 135 | ERRINGTON MINE<br>Giant Yellowknife ML<br>41 I/11<br>46°32'15" 81°15'30" | Py, sph, gal, cp, marcasite and minor po with low Au and Ag in Vermilion Fm shale and chert horizons. | **1897–1909**: discovery, 85' shaft on Stobie Falls, 200' shaft on Oliver, 98' shaft on Balfour with small prod.<br>**1923-31**: extensive surface and u/g dd, 3 vertical shafts, u/g dev and prod of 186,172 tons Cu–Pb–Zn ore.<br>**1951–54**: considerable u/g dev.<br>**1955–57**: dd, u/g dd, new prod shaft, prod of 19,129 tons Cu–Pb–Zn ore.<br>**1977**: shafts reported as flooded. | Ind: 4,418,500 at 1.33% Cu, 1.0% Pb, 3.97% Zn, 0.026 oz/t Au, 1.61 oz/t Ag in low pyrite ore ***plus*** 9,038,317 at 1.14% Cu, 0.99% Pb, 3.82% Zn, 0.023 oz/t Au, 1.58 oz/t Ag in high pyrite ore<br>***1959***<br>(FP Corp Serv, Giant Yellowknife ML, 08/06/60) | The mine closed due to serious metallurgical recovery problems. The resource figures include 10% dilution for Vermilion Lake deposit and 15% dilution for Errington mine (see 41 I/11, Vermilion Lake). Re–evaluation and metallurgical testing, began in 1978 and continued through 1981, indicated that it would be possible to produce marketable concentrates. |
| ONT. 136 | MURRAY MINE<br>Inco Ltd<br>41 I/11<br>46°30'48" 81°04'00" | Breccia ore and high–grade stringers and lenses at the base of the Sudbury Intrusion. Mineralized zone of cp, pn, po and mo about 1500' long by 500' wide. | **1883**: discovery.<br>**1890–94**: dd, o/p mng.<br>**1913–25**: dd, u/g shaft, mng operations intermittent.<br>**1950–71**: o/p mng, u/g dev and mng to 4,163' level, mng rate reached 6,850 t/d in 1971. | N/A Ni–Cu–Mo–Pt–Ag | Mine closed and maintained on a standby basis since 1971. |
| ONT. 137 | NORTH RANGE<br>Inco Ltd<br>41 I/11<br>46°44'28" 81°03'08" | Situated on north side of Sudbury Intrusion. | **1968–71**: expl shaft to 3,175', u/g dev on 3,000' level, dd. | N/A Ni–Cu | Although a developed body, exploration results are not available. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 138 | VERMILION LAKE<br>Giant Yellowknife ML<br>41 I/11<br>46°31'11" 81°21'20" | Fine grained massive and disseminated py, marcasite, sph, cp, gal and po in carbonate and cherty horizons. Repetitious orebodies due to thrust faults. | **1926**: staked, dd.<br>**1951–55**: dd, No 4 shaft to1,341', u/g dev and dd, aerial tramway to Errington mill.<br>**1956–57**: prod of 24,443 tons Cu–Pb–Zn ore<br>**1963–66**: metallurgical testing, mine on care and maintenance.<br>**1977**: shafts reported as flooded.<br>**1980–81**: metallurgical studies. | 5,077,779 at 1.26% Cu, 0.9% Pb, 3.92% Zn, 0.025 oz/t Au, 1.40 oz/t Ag ***plus*** 862,500 at 0.34% Cu, 1.30% Pb, 3.73% Zn, 0.20 oz/t Au, 1.64 oz/t Ag, in north zone ***1966***<br>(Ont SMDR 000835, 1973) | Operations suspended in 1957 due to severe metallurgical problems. A re–evaluation of resources began in 1978. Fresh core samples taken in 1979 and further metallurgical testing indicated that it would be possible to produce marketable concentrates. |
| ONT. 139 | GENEVA LAKE MINE<br>Geneva Mtls Inc<br>(in 1977)<br>41 I/13<br>46°47'35" 81°30'57" | Conformable tabular body in Archean pyroclastics and metasediments. Mainly sph, gal, py with some po and cp. | **1928–44**: shaft to 400', winze to 640'; 80,388 tons milled from 1941–44.<br>**1949–51**: dewatered and sampled mine, dd; mill and other buildings constructed.<br>**1972–74**: mag, EM, dd, preparation for prod in 1975. | Dd–ind: 114,000 at 10% Zn, 3% Pb and $0.90 precious metals ***plus*** dd–ind: 56,000 at c 7% Pb–Zn ***1951***<br>(J E Jerome 07/06/72 for Geneva Mtls Inc) | Plans made to resume production in 1952 and 1975 but neither were carried through. |
| ONT. 140 | STRALAK<br>Stralak Res Inc<br>41 I/13<br>46°48'09" 81°41'50" | Shear zone at mafic metavolcanic contact with metasediments. Zone is 1,500' long and consists of py, po, sph, cp and gal. | **1886**: trenching, stripping.<br>**1927–29**: trenching, pitting, dd.<br>**1948–52**: mag, dd.<br>**1964–65**: geol, mag, EM and dd.<br>**1981**: geoph, 1,500' dd. | Proven or inf: 750,000 at 3%–22% Zn, 2–12 oz/t Ag, 0.5% Pb, 0.5% Cu ***1985***<br>(NM 11/07/85)<br>Inf:<br>***or*** 2,600,000 grade unstated ***1989*** (Shelter Oil & Gas Ltd. 1989 AR) | Pre–production engineering studies. |
| ONT. 141 | NICKEL OFFSETS MINE<br>Canhorn Mining Corp.<br>41 I/14<br>46°45'31" 81°14'23" | Ms po, cp, pn in Foy offset dyke of the Sudbury Nickel Intrusion. Dyke consists of qtz diorite breccia and quartz diorite. | **1928–29**: dd.<br>**1939**: dd.<br>**1941–46**: shafts, production.<br>**1948–52**: mill.<br>**1953–57**: production. | 1,900 at 1.09% Ni, 0.73% Cu ***1957***<br>(Ont. Rept 65, p 36) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 142 | NEW DOMINION<br>J R McGinn (in 1958)<br>41 I/15<br>46°46'11" 80°53'50" | Cp, po and pn mineralization traced 2,600' at the NE corner of Sudbury Irruptive. | **1943**: ground acquisition.<br>**1946**: 8 ddhs totalled 3,464'.<br>**1955**: 74 ddhs totalled 36,725'. | Dd–ind: 45,000 at 0.9% Ni, 0.75% Cu ***1956*** (NM 21/06/56) | Drill intersection of 2% Ni over 11' below 700' depth. |
| ONT. 143 | VERMILION VALLEY<br>Harlin Res L (in 1987)<br>41 I/15<br>46°49.2' 80°57.4' | Placer gold is found in the sands and gravels of old channels of the ancient Vermilion River. | **1897**: gold discovery.<br>**c 1900**: small sluicing operation.<br>**1939–47**: test pitting, sampling, dd.<br>**1958–61**: test pitting, dd.<br>**1984**: geoph. | 37,000,000 cu yds, grade unstated ***1984*** (NM 12/04/84) | Samples taken at Onwatin Lake in 1938–40 gave values of 0.004–0.025 oz/yd Au; avg panning in Onwatin Lake area gave 0.0006 oz/yd Au. |
| ONT. 144 | NEW GOLDEN ROSE<br>Noramco Mining Corp.<br>41 I/16<br>46°55'42" 80°19'18" | Gold in Archean iron formation and in qtz ankerite veins. Zones from 15' to over 100' thick. | **1887**: discovery.<br>**1915, 1916**: tr, mill, shaft to 170', adit.<br>**1927**: dd, u/g exploration, winze.<br>**1935–44**: prod 144,237 tons, 45,414 oz Au, 8,299 oz Ag, shaft 749'.<br>**1981–86**: sampling, dd, geoph, geochem, dewatering, metallurgical testing, ramp.<br>**1987–88**: production 93,408 tons at 0.055 oz/t Au. | 40,000 grade unstated Au ***1988*** (Noramco Mining Corp. 1989 AR) | Operations ceased in 1988 due to low gold content. |
| ONT. 145 | TEMAGAMI<br>Teck Corp<br>41 I/16<br>46°57'45" 80°02'15" | Pyritic Cu–Ni–Co zone (seiginite, millerite) as ms to dis sulphs at base of gabbro sill; high–grade ms cp bodies in rhyolite tuft and breccia were mined. | **1900**: known Cu mineralization.<br>**1951–54**: dd, geoph expl.<br>**1955–72**: shaft to 2,535', 200 t/d mill, o/p operations, u/g dev on 14 levels, 2 sublevels, u/g dd, prod of 724,385 tons Cu–Ag–Au ore. | Prob: 770,000 at 1.04% Cu, 0.46% Ni in pyritic zone ***1969*** (Copperfields Mng Corp L, 1969 AR) | Normal flotation techniques do not produce an acceptable concentrate from the pyritic zone. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 146 | HERMINA MINE<br>Hermina Copper L<br>(in 1974)<br>41 J/1<br>46°14'55" 82°11'25" | Disseminated to massive cp in qtz veins within Algoman granites and crosscutting Nipissing diabase. | **1900–10**: discovery, No 1 shaft to 312'; No 3 shaft to 500' with 4 levels; No 2 shaft to 35'; 4 stopes at No 3 (Hermina).<br>**1951, 1955**: surface expl, dd.<br>**1958–59**: mag and EM surveys, dd surface expl.<br>**1967–71**: reconnaissance mag and EM surveys, bacterial leaching feasibility study, dd. | Dd–ind: 887,040 at 0.319% Cu ***plus*** on surface: 27,500 at 0.33% Cu ***1966***<br>(Ont GR 136, p 111, 1976) | In 1971, it was determined that bacterial leaching is feasible in certain areas of mine. |
| ONT. 147 | MASSEY<br>Aldona ML (in 1981)<br>41 J/1<br>46°14'16" 82°07'11" | Cp with traces of Au and Ag in qtz veins and silicified zones in argillite and qtzite of Pecors Fm. The 3 zones of mineralization are separated by about 1,500'. | **1900–05**: discovery, 555' shaft with 6 levels, adit, 35–42 t/d concentrator, Cu prod.<br>**1907–11**: mine dewatered, sampled.<br>**1915–16**: No 4 shaft sunk, prod.<br>**1955–56**: dd.<br>**1961–64**: EM survey, dd.<br>**1967–70**: feasibility studies on bacterial leaching, mng in No 1 shaft and rehabilitated No 4, decline in adit zone; prod 15,000 tons at 2.5% Cu.<br>**1970–71**: main mine dewatered and examined. | ***(i) Main zone***: 60,000 'workable Cu ore', grade unstated **1917**<br>(GSC Mem 143, p 130, 1925)<br>***(ii) No 4 shaft***: 32,000 at 3.55% Cu, $0.80/t Au at $US35, 0.50 oz/t Ag in 275' x 275' x 5.5' w<br>***(iii) Adit zone***: 5,725 at 3% Cu to 180' d x 4.5" w ***1965***<br>(Ont GR 136, p 115, 1976) | The resource estimates for the No 4 and Adit zones were determined prior to the 1968–71 production. The Main zone was not mined after 1905. |
| ONT. 148 | PRONTO<br>Rio Algom L<br>41 J/2<br>46°12'35" 82°42'25" | A qtz pebble conglomerate at the base of the Matinenda Fm hosts uranium mineralization. | **1948–49**: initial discovery.<br>**1953–54**: dd, shaft sinking, mill erected.<br>**1955–60**: u/g dev on 7 levels; 2,264,404 tons at 2.05 lbs/t $U_3O_8$ mined. | 300,000, $U_3O_8$ grade unstated ***1966***<br>(Ont MRC 9, p 8, 1968) |  |
| ONT. 149 | BALD DOME<br>Soo–Bruce Copper L<br>(in 1971)<br>41 J/5<br>46°21'35" 83°46'45" | Cp, py, bornite and chalcocite in qtz–carbonate matrix of diabase qtzite–greywacke breccia. | **1949**: trenched, dd.<br>**1955–56**: geochem and airborne mag and EM surveys, 21 ddhs.<br>**1962**: EM survey. | 500' x 80'–100' w at 0.25% Cu ***1956***<br>(Ont MRC 12, p 52, 1969) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 150 | **BRUCE MINE**<br>Huron Bruce ML<br>(in 1974)<br>41 J/5<br>46°17'50" 83°46'25" | Cp, bornite and chalcocite in qtz–carbonate veins cutting Nipissing diabase. | **1846–76**: numerous shallow shafts, u/g dev, prod of 47,593 tons at c 20% Cu.<br>**1900–09**: workings rehabilitated, small prod.<br>**1915–21**: continuous prod of c 161,683 tons Cu ore.<br>**1939–44**: surface work, dd.<br>**1955–56**: prospecting, geol mapping, dd.<br>**1966–72**: dd, rehabilitation of Taylor shaft, dewatering. | Ind: 40,000 at 1.8% Cu in Taylor Section ***1956 ?***<br>(Ont MRC 12, p 53, 1969) | The ore was high–grade and very little developmental work was done. |
| ONT. 151 | **CAMPBELL DUKES**<br>Soo–Bruce Copper L<br>(in 1971)<br>41 J/5<br>46°20'45" 83°49'40" | Qtz–cp veins in 1,200' long fracture zone from 6–10' wide along a diabase–qtzite contact. | **Prior 1949**: 60' shaft and 25' crosscut on 50' level.<br>**1955–56**: geol, geochem, airborne mag and EM surveys; dd. | Ind: 33,000 at 1.2% Cu in 230' 1 x 8' w x 220' d block ***1956***<br>(R A MacGregor 1971 ***for*** Soo–Bruce Copper L) | Deeper drilling showed little economic mineralization. |
| ONT. 152 | **PAYNTER**<br>R Paynter (in 1966)<br>41 J/5<br>46°21'50" 83°30'45" | Two parallel qtz–cp veins, 400' apart, in diabase. | **Prior 1957**: trenching.<br>**1957**: trenching, EM survey, dd.<br>**1966**: trenching, dd. | 732' x 7.1' at 1.87% Cu ***pre–1967***<br>(Ont MRC 12, p 17, 1969) | Subsequent drilling obtained lower Cu grades over narrower widths. |
| ONT. 153 | **STEINBERG**<br>Soo–Bruce Copper L<br>(in 1971)<br>41 J/5<br>46°20'52" 83°48'12" | Spotty cp mineralization in qtz–carbonate matrix of qtzite breccia in Proterozoic Gowganda Fm. | **1919**: small tonnage mined, 1 ddh.<br>**1941**: 3 ddhs totalled 792'.<br>**1955–56**: airborne mag and EM surveys, geochem survey, 3,342' dd.<br>**1962**: IP survey, further dd.<br>**1967**: 3 ddh. | Dd–ind: 47,000 at 1.82% Cu ***or*** 124,000 at 1.1% Cu ***1956***<br>(R A MacGregor 1971 ***for*** Soo–Bruce Copper L) | Drilling in 1962 suggested a 30% increase in tonnage over the 1956 value. |
| ONT. 154 | **BILTON OPTION**<br>W Doughty (in 1968)<br>41 J/6<br>46°17'16" 83°10'34" | Cp, py, mag and specularite in qtz veins within brecciated Gowganda Fm slatey greywacke. West body: 450' x 7.3' x 200' deep;<br>Eastbody: 400'x7.3'x200' deep. | **1956**: 31 ddh.<br>**1957**: tonnage calculation by sink–float method.<br>**1962**: resource estimate based on surface sampling. | Dd–ind: 95,160 at 1.72% Cu ***1956***<br>***or*** 25,000–30,000 at 2% Cu ***1962***<br>(Ont GR 17, p 58, 1963) | Subsequent small prod in 1968 of 60 tons grading 0.79% Cu. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 155 | BOYEA LAKE<br>Sudbury Contact ML<br>41 J/6<br>46°25'50" 83°06'50" | Qtz–cp–carbonate–specularite veins cut across flat lying Gowganda Fm sediments. | **Pre 1942**: adit and 2 shafts.<br>**1946**: mapping, samples, dd.<br>**1952–53**: 41 ddh for 8,032'.<br>**1963**: 2,973' dd.<br>**1970**: further dd. | ***(i) Adit area***: 128,000 prob–poss at 1.95% Cu to 200'–220'<br>***(ii) East area***: 56,500 ind at 2.98% Cu to 250' ***1971***<br>(Sudbury Contact ML, 1971 AR) | The shoots in the East adit and East zone were not delimited at depth nor were the ends of the East zone delimited. |
| ONT. 156 | CROWNBRIDGE (CANNON)<br>Can Reserve Oil & Gas L (75%),<br>Silver Spring ML (25%)<br>41 J/6<br>46°29'24" 83°01'52" | Cp in qtz vein and in adjacent breccia within interbedded Gowganda conglomerate–qtzite–argillite. | **1942**: sampled and mapped.<br>**1958–60**: 75 ddh totalled 30,133'.<br>**1963–64**: 14,000' dd.<br>**1966–70**: 250 t/d concentrator, shaft collared, expl adit, dd, u/g dd, deep dd for uranium expl.<br>**1973–75**: examined previous dd records, mill puchased and prop leased, o/p mng in 1975. | Dd–proven: 160,000 at 2.03% Cu ***plus*** poss: 205,000 Cu, grade unstated ***pre–1973***<br>(A G MacKenzie 02/11/73 for Cannon ML ***in*** VSE SMF 13/11/73) | Operations were suspended Oct 31/75. |
| ONT. 157 | MASTER (DESTORADA–IRON BRIDGE)<br>Can Reserve Oil & Gas L (75%),<br>Silver Spring ML (25%)<br>41 J/6<br>46°26'32" 83°09'35" | Cp, bornite and chalcocite associated with multiple qtz veins cutting Gowganda sediments and mineralized breccia zone in sediments flanking a basic intrusive. | **1930**: surface work.<br>**1951–52**: 23 ddh totalled 6,213'.<br>**1961–64**: further dd.<br>**1970–71**: airborne geoph, dd, mapping, trenching, EM survey. | Ind: 162,787 at 1.73% Cu ***1970***<br>(D A MacDonald 20/12/70 for Master Mtls Corp (Mng) L) |  |
| ONT. 158 | MILGATE (ABBICAN)<br>Can Reserve Oil & Gas L<br>41 J/6<br>46°29'05" 83°08'50" | Qtz–cp veins cut Gowganda Fm sediments. Some Au and Ag values obtained. 'A' zone is 600' x 10' x 235' deep. | **1955–56**: surface work, bulk sample, 25 ddh totalled 6,000'.<br>**1965–66**: geoph and geochem surveys, dd.<br>**1970**: airborne EM, mag and rad surveys. | Ind: 105,750 at 1.08% Cu ***1957***<br>(R M Williams 26/05/66 ***in*** Prospectus, Milgate ML, 27/05/66 (3rd amendment)) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 159 | PRINCIPLE STRATEGIC MINERALS<br>Midpines Expls Inc (in 1977)<br>41 J/6<br>46°17'40" 83°12'35" | Qtz–cp vein in diabase cutting Gowganda Fm sediments. | **Prior 1957**: 3 shallow pits.<br>**1957**: 12 ddhs totalled 2,607'. | Ind: 86,386 at 2.26% Cu in Vein No 1 ***plus*** 770' x 6' at 1.44% Cu in Vein No 2 ***1957***<br>(M L Halstead 07/09/57 ***in*** Prospectus, Principle Strategic Mnrls L, 25/09/57) | No work has been reported since 1957. Midpines acquired the claims in 1977. |
| ONT. 160 | SHEBA<br>Sheba ML (in 1972)<br>41 J/6<br>46°29'15" 83°09'00" | Qtz–cp vein in Gowganda qtzite. Also some uranium in conglomerate. | **1956–57**: mapping, 9 ddhs.<br>**1958–59**: scint survey, stripping, trenching, 1 incomplete ddh.<br>**1970**: 1 ddh to 5,941'. | 1000' x 3' at 0.59% Cu ***1957***<br>(Ont MRC 12, p 98, 1969) | Originally explored for copper. 1959 drilling not completed due to drastic drop in demand for uranium. |
| ONT. 161 | WHARNCLIFFE<br>Roaring River ML (in 1959)<br>41 J/6<br>46°24'50" 83°27'20" | Qtz–cp vein cuts Gowganda greywacke and qtzites. Cp distribution is irregular. | **1957–59**: EM and mag, 9 ddhs. | 1,050' x 1.5–3.0' at 0.06–1.40% Cu ***1959***<br>(Ont MRC 12, p 70, 1969) | Most assays were less than 1% Cu. |
| ONT. 162 | ABETA<br>Ateba Ms Inc<br>41 J/7<br>46°22'45" 82°33'30" | Radioactive oligomictic conglomerate of the Mississagi Fm forms part of the Pardee uranium–bearing zone. | **1953–54**: dd.<br>**1977**: dd. | Dd–ind: 12,992,000 at 0.75 lbs/t $U_3O_8$ ***1977***<br>(CMH 1978–79, p 18) |  |
| ONT. 163 | BANANA LAKE<br>Scurry Rainbow Oil L (in 1978)<br>41 J/7<br>46°27'12" 82°41'35" | A uraniferous zone in sediments along the Quirke syncline is thought to be 15,000' x 4,000' x 36'. Diabase intrudes the sedimentary rocks. | **1955–56**: shallow dd.<br>**1966–75**: dd.<br>**1977**: feasibility studies. | Pot: 180,000,000 at 0.7 lbs/t $U_3O_8$ ***1968***<br>(Canuc ML, 1975 AR) | Feasibility studies of in situ leaching and acid treatment of ore were undertaken in 1977. |
| ONT. 164 | CONECHO<br>Rio Algom L<br>41 J/7<br>46°29'13" 82°31'13" | Uraniferous conglomerate beds of the Mississagi Fm rest on granitic basement and are cut by a Nipissing diabase sill. | **1953**: prospecting and rad survey.<br>**1954–55**: dd. | Dd–ind: c 2,000,000 at 1.4 lbs/t $U_3O_8$ across 6' ***1956***<br>(Conecho ML, 1956 AR) | Property is 9 mi NE of Elliot Lake near Conecho Point on Quirke Lake. No recent work. |
| ONT. 165 | GENEX<br>R MacGregor (in 1976)<br>41 J/7<br>46°22'31" 82°36'00" | Uraniferous conglomerate within Mississagi Fm qtzite. | **1954**: dd.<br>**1981**: rad and geol survey. | Ind: 10,000–11,000 $U_3O_8$, grade unstated ***1958***<br>(Ont GR 57, p 131, 1968) | Tonnage is apparently limited. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 166 | LACNOR<br>Rio Algom L<br>41 J/7<br>46°23'44" 82°36'31" | Uraniferous qtz pebble conglomerate at a vertical depth of 2,200' host 2 ore beds. Brannerite and uraninite are main ore mnrls. | **1954–56**: dd, u/g dev in 2 shafts.<br>**1957–60**: u/g dd, cross-cutting, drifting and raising on 16 levels, 2,360,239 tons of ore mined.<br>**1964**: mine waters bled off to Milliken mine.<br>**1980**: studies. | Proven: 551,623 at 0.106% $U_3O_8$; prob: 1,027,119 at 0.105% $U_3O_8$; dd–ind: 5,202,054 at 0.111% $U_3O_8$ ***1959***<br>(Ont AR 1959, pt 2, p 120) | Resource figures prior to 1960 production. |
| ONT. 167 | MILLAQUA<br>Rio Algom L<br>41 J/7<br>46°23'15" 82°30'56" | Part of Pardee uranium bearing zone in lower Mississagi arkose and qtz pebble conglomerate. | **1954–56**: extensive dd, adit, bulk sampling. | Prob: 5,390,000 at 0.07% $U_3O_8$ ***1955***<br>(FP Surv Ms 1956, p 194) | No recent work. Should be considered in a regional context with adjacent deposits. |
| ONT. 168 | NORDIC<br>Rio Algom L<br>41 J/7<br>46°22'48" 82°35'20" | The ore–bearing basal conglomerate is 9.5' thick and rests unconformably on basement at its western limit. The effluent solutions contain 0.13 g/l thorium and 0.20 g/l rare earths. | **1953–54**: discovery, dd.<br>**1955–68**: u/g dev in 2 shafts, conventional mng, 30,676,783 lbs $U_3O_8$ recovered.<br>**1969–70**: u/g water leaching.<br>**1980**: studies. | Proven: 831,000 at 2.19 lbs/t $U_3O_8$, prob: 2,200,000 at 2.07 lbs/t $U_3O_8$, and poss: 10,108,000 at 2.13 lbs/t $U_3O_8$ ***1966***<br>(Ont GR 57, p 123, 1968) | Mine and mill put on care and maintenance basis in 1970. Reserves in developed levels were depleted in 1968. |
| ONT. 169 | ROCHE<br>Denison ML<br>41 J/7<br>46°28'36" 82°31'28" | Radioactive uranium–thorium qtz pebble conglomerate intersected in drilling of Espanola and Serpent Fms on th N limb of the Quirke syncline. | **1953–55**: discovery, dd.<br>**1957**: dd.<br>**1966–67**: dd. | ***(i) Northwest corner***: 750,000 dd–ind at 1.35 lbs/t $U_3O_8$.<br>***(ii) Eastern part***: 4,250,000 dd–ind at 1 lb/t $U_3O_8$. ***1967***<br>(NM 16/05/68) |  |
| ONT. 170 | SILVERMAQUE<br>Geomaque Explorations Ltd. leased to Lac Minerals Ltd. L<br>(in 1977)<br>41 J/7<br>46°24'40" 82°39'20" | Uraniferous conglomerate of the Mississagi Fm, intruded by Nipissing diabase, hosts the deposit. | **1953–60**: dd.<br>**1965-67**: dd.<br>**1976–77**: dd. | Ind: 12,936,000 containing 10,753,000 lbs $U_3O_8$. ***1976***<br>(NM 22/09/77) | 3,563,000 lbs $U_30_8$ recoverable economically from 3,096,000 tons through adjoining Stanleigh workings (1976). |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 171 | SPANISH AMERICAN<br>Rio Algom L<br>41 J/7<br>46°28'37" 82°35'15" | Brannerite and monazite are the ore mnrls in a qtz pebble conglomerate within the Matinenda Fm. Repetition of ore bed due to Quirke thrust. | **1953–59**: dd, u/g dev in 2 shafts, crosscutting, drifting, concreting 2,000 t/d mill.<br>**1958–59**: prod 205,000 tons ore. | Dd–ind: 5,735,000 at 1.94 lbs/t $U_3O_8$; proven: 243,933 at 1.99 lbs/t $U_3O_8$; and prob: 120,140 at 1.99 lbs/t $U_3O_8$ (10% dil) ***1958*** (Ont AR 1958, pt 2, p 126) | Resources prior to subsequent production. Mine closed due to difficult water and ground conditions. |
| ONT. 172 | TWIN LAKES<br>Esten Expls Inc<br>(in 1980)<br>41 J/7<br>46°18'58" 82°37'20" | Cp–py–qtz as stringers and disseminations in shear zones and mafic rocks within granites. | **1956**: 29 ddhs totalled 9,777'.<br>**1974–75**: mag and EM surveys, dd. | Prob: 76,900 at 1.73% Cu over 8.04' ***1956*** (Ont MRC 2, p 91, 1957) | More intensive drilling is needed to determine an accurate resource figure. |
| ONT. 173 | RUM POINT, WHISKEY LAKE<br>Questmont ML<br>(in 1979)<br>41 J/8<br>46°24'00" 82°20'50" | Radioactive pyritic conglomerate intersected in drilling. | **1953–55**: dd.<br>**1977–78**: prospecting, scint survey, trenching and blasting, dd. | 400' x 17' at 0.66 lbs/t $U_3O_8$ ***1977*** (NM 24/11/77) | Surface showing. Optioned in 1978 to Teck Corp. |
| ONT. 174 | BI–ORE<br>Golden Shield Res L<br>41 J/10<br>46°37'50" 82°47'56" | Fissure- filling qtz–carbonate veins containing cp, specularite, bornite and chalcocite cut Proterozoic cherty qtzite. | **1929–32**: 1,368' adit and 1,040' adit, stripping, dd.<br>**1943–50**: 2,200' dd, 1,200' trenching, 400 t/d mill, u/g crosscutting and stoping, mill burnt, more dd.<br>**1956**: Mace smelter erected. | 400,000 at 4% Cu ***1950*** (CMH 1950, p 30) | The mine was not brought back into production after fire destroyed the mill in 1949. |
| ONT. 175 | BRUCE–PRESTO<br>Bruce Presto ML<br>(in 1967)<br>41 J/10<br>46°34'50" 82°57'20" | Cp and cobalt arsenides in shear zone in Post–Huronian gabbro. | **1952**: trenched, dd.<br>**1963**: IP survey, 6 ddh. | 500' x 9'–25' at 2–3% Cu, trace to 2% Co ***1963*** (Ont MRC 12, p 91, 1969) | |
| ONT. 176 | SAMREID LAKE<br>Talvey Mtl ML<br>(in 1964)<br>41 J/10<br>46°33'30" 82°46'00" | Massive sulphides, py, po and cp, in basic Archean igneous rocks. Also scat-tered sulphide bearing qtz veins with associated py, po, cp, gal and sph. | **1936**: trenching.<br>**1954–55**: dd, mag survey.<br>**1957**: additional dd. | Ind: 502,607 at 38.27% Fe, 32.5% S, across 13.47' ***1957*** (M C Halstead 31/07/59 ***in*** Prospectus, Talvey Mtl ML, 25/09/59) | Tonnage calculated to 450' depth and did not incl other parallel bands. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 177 | WHITE RIVER LEAD<br>Sudbury Basin ML (in 1942)<br>41 J/10<br>46°34'05" 82°59'35" | Qtz veins containing po, gal, cp within diabase. | **1927–28**: surface work, adit. 1,975' long, 354' of crosscutting. | 25,000 at 15% Pb ***1928*** (Mining Chronicle 13/10/28) | Resource estimate from surface work. A shoot 80' x 7' at 7.6% Pb, 1% Cu, 2.3 oz/t Ag was outlined in u/g examination. |
| ONT. 178 | CHENEY MINE<br>Resource Expl & Dev CL (in 1980)<br>41 J/11<br>46°30'08" 83°23'45" | Cp, py, barite, calcite, siderite, ankerite and hematite in qtz veins cutting Gowganda Fm sediments and diabase. | **1916**: trenches, pits, 70' incline shaft, drifting on 50' level.<br>**1928**: shaft deepened, u/g dev, 7 ddhs totalled 2,514'.<br>**1955–56**: 8 ddhs totalled 4,723'.<br>**1960**: mag and EM surveys.<br>**1966–67**: 25' headframe erected, mine rehabilitated, some ore shipped. | Ind: 39,405 at 3.97% Cu ***1956*** (D A Duff 23/11/59 in Prospectus, Rothsay ML, 04/12/59) | The resource figure was given before minor production of 3,500 tons (Cu grade not given) in 1966–67. |
| ONT. 179 | COPPER PRINCE MINE<br>Copper Price Res Inc (in 1986)<br>41 J/11<br>46°30'41" 83°02'21" | Py, cp, chalcocite and specularite in qtz veins within chloritic shear zone cutting Gowganda Fm arkose. | **1928–29**: staked, 30 ddh.<br>**1947**: geol mapping.<br>**1951–52**: trench samples, dd.<br>**1972–73**: 240' decline, mng of 1,088 tons grading 2.07% Cu in December 1972, ore trucked to Crownbridge mill. | Ind: 50,000 at 3% Cu ***1972*** (New Calumet ML, 1973 AR) | Without sufficient feed for the mill, mining operations were stopped. |
| ONT. 180 | JARDUN MINE<br>Watson Lake ML<br>41 K/9<br>46°38'35" 84°08'20" | Replacements or fissure fillings in shear zones within granite and diabase. | **1875–85**: 2 small producers operated, 900 tons milled from one.<br>**1951–57**: 2 shafts sunk to 415' and 374', 130,536 tons milled; 3,850' of drifting and 1,326' of crosscutting.<br>**1983–84**: geoph, geol, geochem, dd. | 49,367 at 4.4% Pb, 3.1% Zn, 1.42 oz/t Ag ***1957*** (NM 26/02/76) |  |
| ONT. 181 | JARVIS DEEP<br>De Ville Copper Mines Ltd (in 1957)<br>41 K/9<br>46°41'30" 84°09'30" | Gal, sph, py, Ag in a fracture. | **1950**: tr, sampling, geoph.<br>**1952**: dd.<br>**1957**: dd. | 230' x 3.7' at 2.06% Pb, 3.8% Zn, 0.70 oz/t Ag ***1957?*** (Ont. MRC 12, p 33) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | | REMARKS |
|---|---|---|---|---|---|---|
| ONT. 182 | GOULAIS RIVER<br>Great Northern Fin Corp<br>(in 1983)<br>41 K/16<br>46°45'52" 84°15'22" | Cu mineralization in carbonatized flow tops underlying graphite schist. High–grade Pb and Ag in drill intersections. | **1900**: shaft.<br>**Prior 1970**: some trenching.<br>**1972–73**: geol and geoph surveys, 33 ddhs totalled 12,294'.<br>**1979**: 400' decline, dev.<br>**1980**: EM survey.<br>**1981**: 112 t conc prod. | Ind: 250,000 at 2.35% Cu, 0.26 oz/t Ag in 3 zones ***1973***<br>(NM 14/06/73) | | Drilling of a similar structure, 1,000' to the north revealed high–grade lead and silver. Limited amount of Pb–Zn conc produced 1975, 1981. |
| ONT. 183 | KRISTINA MINE<br>Ventures Claims L<br>(in 1972)<br>41 K/16<br>46°53'10" 84°05'25" | Cp, minor py and gal in qtz veins in contact zone bt hornblende granite and diorite. | **1901–07**: 6 shafts with u/g dev, small shipment 1903 from No 6 shaft.<br>**1941–44**: dd.<br>**1952–57**: geol survey, dd, No 6 shaft dewatered and sampled, geoph survey. | prob–poss: 369,350 at 1.95% Cu in Nos 4 and 6 shaft zones ***1957***<br>(Ont MRC 12, p 75, 1969) | | The mine closed in 1907 due to low copper prices and poor milling methods. |
| ONT. 184 | PRACE<br>Sill Lake Silver Mine Ltd.<br>41 K/16<br>46°46'05" 84°15'25" | Sulphs with high grade silver in vein at contact of Nipissing diabase and Gowganda Fm Argillite. Minerals include galena, tetrahedrite, py, sph, cp and po. | **1973**: dd, discovery.<br>**1975**: tr, prod.<br>**1979–83**: u/g development, mng, mill, EM.<br>**1985–88**: prod. | N/A | Pb–Ag | 1985 shipped 80 tons of lead–silver concentrate. |
| ONT. 185 | COPPERCORP MINE<br>Coppercorp L<br>41 N/2<br>47°01'13" 84°45'09" | Chalcocite, bornite, cp, specularite and rarely native Cu as stringers or blebs in qtz–carbonate veins as fissure fillings within Proterozoic basalts and conglomerate. | **Pre–1800s**: mng of native Cu.<br>**1856–57, 1884**: trenching, u/g dev.<br>**1949–57**: surface work, extensive dd, u/g dev on 3 levels, shaft reached 550'.<br>**1964–72**: mng operations, surface and u/g dd, Cu–Au–Ag recovered from 1,129,247 tons milled.<br>**1974**: small o/p prepared, then project cancelled. | N/A | Cu | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 186 | GLENROCK<br>Rockdale ML<br>(in 1954)<br>41 N/2<br>47°00'30" 84°34'58" | Cobaltite, py, cp, Au and Ag in carbonate veins cutting mafic volcanics. | **1951–53**: discovery, trenching, sampling, 11ddhs totalling 2,365.8'. | 250' x 3.5' at $22/t Co–Au ***1953***<br>(FP Surv Ms 1954, p 225) | Drilling failed to prove ore is continuous at depth. |
| ONT. 187 | GUI–POR<br>Gui–Por U Ms & Mtls L<br>(in 1967)<br>41 N/2<br>47°01'50" 84°38'15" | Disseminated cp along edge of gabbroic sill, in a qtz porphyry, and in qtz–carbonate seams in volcanics. | **1955**: surface work, geoph survey, dd.<br>**1964–65**: mapping and dd. | 2,000' x 15' at 0.5% Cu ***1957***<br>(W R Newman 26/03/64 ***in*** Prospectus, Gui–Por U Ms & Mtls L, 30/04/64) |  |
| ONT. 188 | JOGRAN (BJORNAS-DALE)<br>Jogran ML (in 1968)<br>41 N/2<br>47°02'35" 84°36'55" | Cp and mo disseminated throughout feldspar porphyry and also in narrow qtz veins and fractures cutting the porphyry. | **1953**: airborne mag, exploring for Fe fm.<br>**1963–66**: mag, EM, 5,721' in 10 ddh. | 600' x 400' at 0.053% $MoS_2$, 0.19% Cu ***1966***<br>(NM 09/06/66) | The minimum depth is 680'. |
| ONT. 189 | MARICONA<br>Colex Expls Inc<br>(in 1978)<br>41 N/2<br>47°08'38" 84°43'38" | Chalcocite, cp, bornite and native Cu in fissure filling vein breccias in basalt. The ore zone measured 1,098' l x 8.1' w x 345' deep. | **1863–66**: expl adit and 2 shafts.<br>**1949–54**: geol and geiger counter surveys.<br>**1955–56**: extensive dd, surface samples, EM survey.<br>**1962–64**: further dd.<br>**1972–75**: mag and geochem surveys, dd. | Ind: 295,405 at 1.17% Cu ***1956***<br>(Ont MRC 12, p 58, 1969) | This resource figure is distributed in 3 sections of 240', 458' and 400' lengths. |
| ONT. 190 | PANCAKE LAKE<br>Continental McKinney ML (in 1967)<br>41 N/2<br>47°03'40" 84°37'50" | Qtz–cp–py veins in fault zone cutting metavolcanics. The mineralized zone appears to be 1,600' x 21.5' of 1"–6" qtz stringers. | **1953**: airborne mag survey.<br>**1956**: trenching.<br>**1958–67**: SP and EM surveys, 1,712' dd in 5 ddhs, expl. | Pot: 600 T/VF at 0.76% Cu to 200' ***1964***<br>(A W Jeckell 16/11/64 in Prospectus, McKinney GML, 19/12/64) | Surface exploration in 1966–67 was not encouraging and the claims lapsed. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 191 | TRIBAG<br>Sunburst Exploration Ltd.<br>41 N/2<br>47°05'09" 84°30'35" | Proterozoic cp, mo, sph and gal mineralization in 5 breccia bodies from large low to medium–grade deposits. | **1954–56**: dd.<br>**1960–66**: photo–geol study, geol mapping, geoph surveying, dd, shaft sunk, u/g dev.<br>**1967–75**: mill erected, further mapping, geochem and geoph surveys, prod.<br>**1980**: 150 m decline, dd. | ***(i) East breccia***:<br>125,000,000 at 0.13% Cu, 0.03–0.05% $MoS_2$, recoverable Ag<br>***(ii) Breton breccia***:<br>40,000,000 at 0.2% Cu above 1000'.<br>***1974***<br>(CIM Bull, Aug 1974, p 72, 74)<br>**(iii) Tailings:**<br>100,000 at 0.6–1.0% W + 1,000,000 at 0.23% $W0_3$ (NM 23/12/82) | East breccia has never been mined. Between October 1967–1973, 36,297,186 lbs Cu plus Ag were recovered from other zones. |
| ONT. 192 | COUTU<br>Coutu GML (in 1972)<br>41 N/10<br>47°38'28" 84°46'22" | Qtz veins containing Au, in fault zone cutting qtz monzonite and gabbro. | **1955–61**: pitting, dd. | 200' x 0.5'–7' at 0.5–1 oz/t Au ***1961***<br>(Ont GR 69, p 66–7, 1969) | |
| ONT. 193 | RENNER<br>Teck Mng Group L (in 1972)<br>41 N/10<br>47°36'00" 84°46'54" | Gamitagama Lake Complex of pyroxene gabbro and diorite contain po, py, pn, bravoite and cp mineralization within contact zones adjacent to hornfelsed mafic volcanics. | **1954-56**: staked, trenched; mag, EM and geol surveys; 16 ddh.<br>**1960**: regional geol and EM surveys, detailed resistivity, SP, mag and topo surveys.<br>**1965–66**: 4,265' in 14 ddh. | Dd–ind: 2,888,000 at 0.29% Ni, 0.26% Cu<br>***c 1966***<br>(Ont MRC 12, p 83, 1969) | The high–grade portion of the resource figure comprised 161,400 at 01.08% Ni and 0.71% Cu. |
| ONT. 194 | EAGLE RIVER<br>Hemlo Gold Mines Inc.<br>41 N/14<br>47°58'35" 85°27'20" | Gold in qtz veins associated with 1 m to 5 m shear zones in Archean volcanics. | **1983–85**: geol, tr, shipping, geoph.<br>**1987**: dd, discovery, geoph, bulk sampling., u/g work. | 1,770,000 at 0.25 oz/t Au (cut) ***1988***<br>(Central Crude Ltd, 1988 AR) | |
| ONT. 195 | FENLON<br>41 N/14<br>47°57'40" 85°06'20" | Scheelite in qtz lenses in a shear zone. | **1942**: expl.<br>**1950–52**: tr, dd, geol, metallurgical tests. | 790 T/VF at 0.15% W<br>***1952***<br>(Ont MP 128, p 250, 1986) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 196 | MONK GOLD<br>Monk Gold Resources Ltd.<br>41 N/15<br>47°54'50" 84°45'16" | Gold in qtz veins in tuff with py, po, cp and sph. | **1936–37**: discovery, about 60 tons of 1 to 2 oz/t Au shipped, shaft.<br>**1974–75**: bulk sampling.<br>**1981–85**: stripping, tr, geoph, dd, decline ramp 360'. | B–zone: 1.7 x 112.5 x 115 metres<br>(NM 20/03/89) | 1985 dd intersection included 32.3' of 0.224 oz/t Au. |
| ONT. 197 | PARKHILL MINE<br>Dunraine ML<br>41 N/15<br>47°57'48" 84°44'24" | Gold–bearing qtz veins within qtz stockwork porphyry and volcanics. | **1900–03**: 208' shaft.<br>**1929–44**: new 1912' shaft with 14 Ls; intermittent prod of Au and Ag, 125,778 milled with recovered grade of 0.43 oz/t Au.<br>**1980**: dd.<br>**1981**: dd, dewatered to 2nd level, u/g sampling, bulk sampling tailings.<br>**1982**: dewatered to bottom L, u/g dd, bulk sampling.<br>**1983**: geol, geoph, geochem.<br>**1986–87**: u/g exploration, sampling. | 20,000 at 0.4 oz/t Au (cut) above 3rd L ***pre–1980*** (NM 18 & 25/09/80) and 60–80,000 tailings at unstated Au grade ***1980***<br>(NM 11/09/80)<br>***plus*** 200–250,000 tailings at 0.056 oz/t Au (Dunraine ML Inter Rept Sept 30/81) | Citadel Gold Mines Inc. option. |
| ONT. 198 | RANSON<br>Bridget Lake Resources Inc.<br>41 N/15<br>47°54'01" 84°51'30" | Gold in sheared feldspar porphyry of the Bridget Lake Stock. | **pre:1980s**: adit.<br>**c1986–88**: sampling, dd. | 10,000–30,000 at 0.2 to 0.6 oz/t Au ***1988***<br>(Ont MP 142, p 188) |  |
| ONT. 199 | S B SMITH MINE (VAN SICKLE)<br>Dunraine ML<br>41 N/15<br>47°57'50" 84°44'18" | Gold–bearing qtz veins within qtz stock porphyry and volcanics. | **1934–36**: shaft sinking, 2 levels established, 9,228 tons milled.<br>**1982**: mapping. | 10,000 at $16/t Au "ore available for milling" ***1936***<br>(Globe and Mail 21/08/36) | Previous estimate of gold–bearing material remaining in both Parkhill and Van Sickle mines was 91,000 tons at unstated grade (NM 05/02/81). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 200 | STENABAUGH<br>Milmac ML (in 1939)<br>41 N/15<br>47°55'40" 84°46'30" | Gold–bearing qtz veins within volcanics. | **1927–34**: trenching, pitting, stripping, sampling. | 80' x 3.5" at $30.72/t Au<br>***1927***<br>(Ont AR 1927, Pt 2, p 46) | Au at $20.67/oz. |
| ONT. 201 | SURLUGA<br>Citadel GM Inc<br>41 N/15<br>47°59'20" 84°45'00" | Gold–bearing qtz stringers and lenses in a shear zone in Algoman qtz diorite and granodiorite. Gold in 3 types of zones: qtz–tourmaline, qtz–py and arsenical–py. | **1895–98**: stripping, trenching, pitting.<br>**1934–37**: 2 small shafts.<br>**1960–70**: u/g dev, milling in 1968–69 of 29,504 tons of ore with Au–Ag recovery, dd.<br>**1974–75**: dewatered workings, dd, feasibility study.<br>**1982**: mag and rad survey.<br>**1987–89**: u/g exploration, dd, 500 tpd mill. | Prov & prob: 358,500 at 0.215 oz/t Au;<br>Poss: 150,000 at 0.230 oz/t Au<br>***1987***<br>(Citadel GML 1987 AR)<br>***plus*** Old Tom's Zone: 211,370 at 0.175 oz/t Au ind 106,470 at 0.158 oz/t Au inf<br>**1988**<br>(EMJ 6/89, p 9) | First gold bar poured in 1989. Dd other potential areas. Milled surface stockpile in 1989. |
| ONT. 202 | JEROME MINE<br>E B Eddy Forest Prods L<br>41 O/9<br>47°37'10" 82°14'30" | Cherty qtz veins at or near sediment–porphyry contact. | **1938–45**: discovery, dd, shaft sunk to 1,138', u/g dev on 6 levels, milling of 335,060 tons Au–Ag ore in 1941–43.<br>**1981, 1984; 87–89**: new headframe, dewatered to first L, sampling, 2,700' dd, u/g exploration. | 600,000 at 0.20 oz/t Au<br>***1989***<br>(Muscocho Explorations 1988 AR) | Jerome GM Corp and Muscocho Expl hold options. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 203 | SHUNSBY (ALDRA)<br>MW Res L<br>41 O/10<br>47°42'48" 82°39'30" | Cp, py, po and sph as fracture fillings in brecciated chert bands interbedded with lavas. Basal and Middle Chert separated by 150' spherulitic andesite. | **1904-07**: prospecting for iron.<br>**1928–29**: stripping, trenching, dd.<br>**1954–61**: mag, EM and geol surveys, stripping, trenching, 23,941' in 83 ddh.<br>**1964–65**: 14,000' dd.<br>**1968–75**: dd, geochem surveys.<br>**1980**: dd.<br>**1981**: dd.<br>**1982**: dd N zone | ***(i) North zone***: 80,000 prov at 3.9% Cu, 6.2% Zn, 0.03 oz/t Au, 1.20 oz/t Ag<br>***(ii) South zone***: 1,000,000 dd–ind at 1.5% Cu, 5.0% Zn<br>***1981***<br>(NM 29/10/81)<br>***or***<br>Dd-ind: 2,400,000 at 0.4% Cu, 2.4% Zn ***1981*** ?<br>(C.M. Rebagliati in Prospectus Grand America Mnrls Ltd. 10/05/89) |  |
| ONT. 204 | TEXASGULF–CUNNINGHAM<br>Falconbridge Ltd.<br>41 O/10<br>47°43'39" 82°41'37" | Lead, zinc, copper in iron formation. | **1976–79**: dd. | Dd-ind geological inventory: 100,000 at 3% Zn, 1% Pb, 0.5% Cu, ***1979?***<br>(CM Rebagliati in Prospectus, Grand America Minerals Ltd 10/05/89). |  |
| ONT. 205 | FALCONBRIDGE<br>Falconbridge Nickel ML (in 1968)<br>41 O/14<br>47°46'57" 83°04'53" | Local section 2,200' in diameter of massive, brecciated, disseminated or stringer magnetite–apatite pods in Lackner alkaline complex. | **1951–57**: aeromag, geol and ground mag surveys, 8 ddhs.<br>**1959**: mag survey, 11 ddhs.<br>**1963**: 3 ddhs. | ***(i) Zone 1***: 2,000,000 dd–ind at 18.9% Fe (sol) and 3.7% P<br>***(ii) Zone 2***: 500,000 dd–ind at 22.3% Fe (sol) and 2.8% P<br>***1963***<br>(Ont MP 67, p 74, 1976) | This property is close to Multi–Minerals columbium deposit. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 206 | MULTI–MINERALS<br>Multi–Mnrls L<br>(in 1986)<br>41 O/14<br>47°47'12" 83°07'42" | Mag–apatite–pyrochlore as separate clusters, in fine disseminations or as euhedral grains in nepheline stringers within the Lackner alkaline complex. | **1949–59**: dd, mag and geol surveys.<br>**1965-71**: recovery studies.<br>**1973–74**: crushing and magnetic separation plant erected, ore broken in No 6 o/p, small shipment. | ***(i) No 6***: 5,024,250 ind at 69.6% $Fe_3O_4$, 21.88% apatite, 0.173% $Cb_2O_5$ to 500' depth<br>***(ii) No 3–4***: 37,000,000 ind at 13.7% $Fe_3O_4$, 21.3% apatite, 0.198% $Cb_2O_5$ to 1200' depth<br>***(iii) No 8***: 80,000,000 inf at 0.25% $Cb_2O_5$ to 800' depth.<br>***(iv) No 6 Fracture***: 1,200,000 inf at 0.28% $Cb_2O_5$<br>***1959***<br>(H A Pearson 25/03/74 ***in*** Multi–Mnrls L, 1973 AR) |  |
| ONT. 207 | BELCHER (HALCROW SWAYZE)<br>Consolidated Regal Resources Ltd.<br>41 O/15<br>47°47'53" 82°56'27" | Mineralized shear zone up to 200' wide in sediments adjacent to a qtz diorite dyke. | **1932–37**: stripping, trenching, dd, shaft to 371', u/g dev on 3 levels, mill erected, small prod of 38.7 oz Au, 15 oz Ag in 1935.<br>**1984**: geoph, sampling, geol.<br>**1985–87**: dd. | Ind: 1,100,000 at $1.67/t Au, o/p mineable to 500' depth ***1935***<br>(Halcrow Swayze ML 31/01/35, letter to shareholders) | Subsequently, an estimate of 125,000 tons at $4 (.114 oz) Au/t above 350' level, was reported. |
| ONT. 208 | KENTY MINE<br>Emerald Isle Resources Inc.<br>41 O/15<br>47°50'16" 82°36'38" | Auriferous qtz veins containing py, cp, gal, sph and mo occur in lavas, sediments and intrusive rocks. | **1931–36**: 2 shafts sunk 510' and 534', 5–ton test mill operated for 3 months.<br>**1946–50**: dewatered, u/g and surface work, 100–ton mill erected but no record of any material milled.<br>**1983**: geol, geoph.<br>**1986–88**: tr, sampling, dd. | ***(i) No 1 shaft***: 69,000 Au, grade unstated.<br>***(ii) No 2 shaft***: 290,000 Au, grade unstated ***1947***<br>(FP Surv Ms 1951, p 147)<br>(iii) New vein: 48,000 at 0.138 oz/t Au ***1987?***<br>(NM 13/06/88, p A6). | Recorded gold production was valued at $42 pre–1936. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 209 | JOBURKE<br>Domego Res L<br>(in 1980)<br>41 O/16<br>47°48' 82°22' | Auriferous qtz veins in granite. | **1946–47**: surface work, dd, geoph survey.<br>**1979**: clean up of trenches, selected sampling, dd.<br>**1980**: dd. | ***(i) Marion tp***: 350' x 21' dd–ind at $5.85/t Au<br>(FP Surv Ms 1947, p 137)<br>***(ii) Heenan tp***: 70' x 6.4' at $7.44/t Au<br>***1946***<br>(FP Surv Ms 1947, p 133) | The company felt that a fairly large tonnage of gold mineralization with o/p potential existed on the Marion tp property, but1980 dd was not encouraging. |
| ONT. 210 | RUNDLE<br>Breakwater Resources Ltd.<br>41 O/16<br>47°51'30" 82°20'53" | Mineralized qtz veins in porphyry and included volcanic remnants. | **1940–41**: discovery, trenching, dd, shaft to 375', u/g dd and dev, mine idle.<br>**1982, 1985–88**: stripping, tr, dd, u/g exploration, decline ramp, shaft deepening. | Ind: 550,000 at 0.4 oz/t Au ***1987***<br>(NM 15/07/87) | |
| ONT. 211 | RUNDLE NO 2 (MIQUELON)<br>Breakwater Resources Ltd.<br>41 O/16<br>47°54'36" 82°23'24" | Auriferous qtz veins in lavas. | **1945**: trenching, dd.<br>**1980?**: dd. | Prob: 3,200 at 0.34 oz/t Au;<br>poss: 15,000 at 0.18 oz/t Au **1986**<br>(Novamin Inc., Prospectus Dec, 1986) | |
| ONT. 212 | STACKPOOL (JEFFERSON)<br>Excelsior ML<br>(in 1975)<br>41 O/16<br>47°49'45" 82°14'00" | Archean iron fm consisting of py, siderite, mag, po and silicate mnrls. A small qtz–sph–gal vein cuts the iron fm at a low angle. | **1908–29**: stripping, test pitting, dd.<br>**1950–52**: mag, 23 ddh totalling 6,300'.<br>**1957–63**: EM, 28,983' of dd.<br>**1972**: airborne mag. | Dd–ind: 51,580,000 at 34% Fe, 13.9% S, 0.5% Mn ***1961***<br>(Hargraft 03/07/51 ***in*** Prospectus, Central Sudbury Lead–Zinc ML, 05/06/51)<br>***plus*** 49,500 at 4.02% Zn, 2.05% Pb ***1951***<br>(CMH 1963, p 112) | The iron is low grade and in thin discontinuous bands. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 213 | SWAYZE<br>Orofino Res L<br>41 O/16<br>47°56′35″ 82°24′30″ | Gold in qtz stringers and qtz–calcite veins cutting metagabbro in section 12.7′ wide with py, another section is 6′ qtz calcite veins. | **1933–36**: dd, panning.<br>**1945–51**: dd, shaft to 306′, u/g dev on 2 levels.<br>**1962–63**: deeper dd.<br>**1973–74**: dd, revised ore est.<br>**1979–80**: rehabilitation of bldgs, geoph, dd, 34 ddh, for 32,866′.<br>**1981–85**: dd, tr, sampling, u/g work, feasibility study, metallurgical testing.<br>**1988**: decline ramp. | Proven & poss & prob: 1,651,691 at 0.14 oz/t Au ***1984***<br>(CMH 1985–86, p 316) |  |
| ONT. 214 | DELHI PACIFIC<br>Delhi Pacific Res L<br>41 P/1<br>47°08′30″ 80°21′30″ | Ag–bearing gal, py, cp and erratic Au occur in vuggy qtz–carbonate veins mainly within Nipissing diabase and locally within greywacke. | **1907**: 2 adits and shallow shaft.<br>**1946–47**: dd.<br>**1949–52**: geol, dd, tunnelling, bulk sampling, surface and u/g expl, res est.<br>**1956**: surface work, dd, u/g dev. | 54,000 at $20.25/t Pb–Ag–Au to 200′ below adit ***1951***<br>(Ont AR 1953, pt 4, p 18) | Recoverable net value based on Pb at $0.11/lb, $0.90/oz Ag and $35.00/oz Au. |
| ONT. 215 | ZINC LAKE<br>Zenmac Zinc Ltd.<br>41 P/3<br>47°09′20″ 81°27′25″ | Narrow bands of sph, gal, py, po, cp within greywacke. Main zone ranges from 2′–18′ in width and is at least 1.25 mi in length. | ***1912***: trenches, shaft to 54′.<br>***1927–28***: surface work, dd.<br>***1948–58***: geoph, dd.<br>***1979–80***: dd. | Ind: 140,000 at 1.91% Pb, 5.02% Zn, 0.31 oz/t Ag ***1984***<br>(Zenmac Explorations Ltd. 1984 AR) |  |
| ONT. 216 | ETHEL<br>Ethel Copper Ms L<br>(in 1975)<br>41 P/9<br>47°44′52″ 80°16′30″ | Cp, bornite and specularite occur in calcite stringers cutting both diabase and sediments. Higher grade intersections found in the diabase. | **1911**: shaft on Ag vein.<br>**1952**: dd.<br>**1960–63**: inclined adit, dd, EM and IP surveys, u/g dev, 8,853 tons milled with Cu–Ag–Au recovery.<br>**1966–67**: 10,485 tons mined. | 32,000 at 2.64% Cu above 150′ ***1966***<br>(NM 08/12/66) | Subsequent to the resource estimate, salvage operations took place in 1966–67. Operations ceased due to difficulty in maintaining production. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 217 | BONSALL<br>Sandy K Mines, Ltd.<br>41 P/10<br>47°40'18" 80°45'00" | Silver–calcite veins in diabase sill near contact with Archean rocks. Other minerals include smaltite, niccolite, and native bismuth. | **1908–09**: discovery, shaft sinking.<br>**1910–1967**: prod. 156,262 oz Ag.<br>**1968–69**: prod. 114,527 oz Ag.<br>**1987–89**: u/g exploration, dd. | 1,000,000 oz. Ag. ***1988***<br>(NLX Resources Inc 1988 AR) | NLX Resources option. Reserves may also be present in the Miller Lake O'Brien property. |
| ONT. 218 | HUDSON BAY MINE<br>Devon Res L<br>(in 1975)<br>41 P/10<br>47°30'48" 80°48'06" | Silver- bearing veins typical of Cobalt area contain ore shoots near intersections of main and transverse veins within shear zone. | **1908**: discovery.<br>**1910–13**: 4 shafts, u/g dev, small prod.<br>**1929**: shafts dewatered, prod.<br>**1935–37**: shafts dewatered, u/g dev, prod, cobbing, stockpiling.<br>**1960–68**: dd, u/g dd, lateral dev, prod, cobbing, stockpiling.<br>**1974–75**: 80 t/d mill. | Surf stockpile and u/g broken: 10,400 at 12.2 oz/t Ag ***1968***<br>(NM 18/02/68)<br>***plus*** inf: 200,000 at 30 oz/t Ag ***1974***<br>(FP Surv Ms 1978, p 147) |  |
| ONT. 219 | MANN<br>Manridge Expls L<br>41 P/10<br>47°37'20" 80°49'06" | Silver–bearing calcite veins near Nipissing diabase dyke. | **1908–14**: discovery, trenching, 5 shafts sunk, u/g dev, drifting and crosscutting, prod.<br>**1952**: dewatering shaft, dd, tailings treated at O'Brien.<br>**1967–70**: dd, mine rehabilitation, u/g dev, prod of 174,412 oz Ag in 1969–70.<br>**1983–84**: geol, geoph, 1 000 tonnes trucked to Cobalt, decline<br>**1987**: dd. | Ind: 19,000 at 35 oz/t Ag to 200' depth ***1968***<br>(Ont MRC 10, p 394, 1968) | Subsequent to resource estimate, about 4,000 tons of ore were mined. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 220 | MILLER LAKE O'BRIEN<br>Lencourt Ltd. (in 1988)<br>41 P/10<br>47°40'00" 80°44'15" | Silver–smaltite–calcite veins in Nipissing diabase. Other minerals include cp, py, gal, sph, native bismuth, niccolite. | **1908**: discovery.<br>**1909–1939**: prod 17,555,648 oz. Ag.<br>**1940–44**: prod 620,000 oz Ag.<br>**1945–1969**: prod. | 1,800,000 at 1.4 oz/t Ag ***1986*** (in tailings) (Canadian Lencourt Mines Ltd. 1986 AR). | Tailings from several previously mined areas. |
| ONT. 221 | MINTO<br>Dalhousie Oil CL<br>41 P/10<br>47°38'40" 80°59'58" | Qtz, carbonate, py in minute fractures in Archean rhyolite, volcanic breccia and tuff. | **1930–31**: trenching, dd.<br>**1939–40**: shaft to 20', dd, work suspended.<br>**1982, 85**: geoph, dd, bulk sampling. | 400,000 at 0.2 oz/t Au ***1985*** (NM 10/01/85) | Duncan Gold Resources option. |
| ONT. 222 | SISCOE METALS<br>Lencourt Ltd. (in 1988)<br>41 P/10<br>47°38' 80°44' | Silver–smaltite–calcite veins. | **1945**: tailings sampled.<br>**1945–72**: u/g prod. | 1,800,000 tons at 1.4 oz/t Ag ***1986*** (in tailings) (Canadian Lencourt Mines Ltd. 1986 AR) | Tailings from several previously mined areas. |
| ONT. 223 | BILMAC<br>Bilmac GML (in 1971)<br>41 P/11<br>47°36'00" 81°10'56" | Two parallel qtz veins in Archean sheared, pillowed, and amygdaloidal lava as well as intrusive porphyries. | **1911–40**: adit, 3 shafts to 87', 40' and 425'; 12 tons shipped in 1933. | 250,000 at $12.00/t Au ***1938*** (Ont. GR 152, p 37, 1977) | Au at $35.17/oz. An 80 ton mill was built in 1938 but never used. |
| ONT. 224 | GOSSELIN<br>Onitap Resources Inc.<br>41 P/11<br>47°34'48" 81°15'45" | Gold in qtz vein cutting Archean felsic and mafic metavolcanic rocks. | **1911–12**: discovery, tr, pitting, sampling, 50' shaft.<br>**1922**: sampling<br>**1928–30**: tr, pitting, sampling.<br>**1930's**: sampling.<br>**1959**: sampling.<br>**1973–75**: geol, geoph, dd.<br>**1979–84**: geol, geoph, dd.<br>**1987**: dd. | Dd–ind: 100,000 at 0.04 oz/t Au ***1986*** (Ont MP 138, p 296). |  |
| ONT. 225 | MATONA<br>Asquith Resources Inc.<br>41 P/11<br>47°39'11" 81°03'36" | Veins and veinlets of qtz with py and gold in Archean volcanic rocks. | **1930's**: surface exploration.<br>**1936–38**: shaft 215', u/g exploration, dd. | Poss: 30,000 at 0.30 oz/t Au ***1937*** (Ont MDC 18, p 184) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 226 | MICHIWAKENDA LAKE<br>Triton Explorations Ltd. (in 1973)<br>41 P/11<br>47°36'58" 81°12'52" | Gold in qtz lenses in schist. | **1918–23**: discovery, tr, pitting str, pitting, shaft 300', dd.<br>**1936**: sampling. | 90' x 3'9" at $26.02/t Au; 180' x 4'4" at $21.50/t Au; 50' x 4' at 7.50/t Au, 30' x 4' at $19.50/t Au **1936**<br>(The Mines Weekly, April 26, 1936). |  |
| ONT. 227 | RIBBLE<br>Triton Expls L (in 1975)<br>41 P/11<br>47°36'11" 81°12'05" | Au, Ag, pyr, cp and sph in qtz and carbonate veins in Archean pillow lava. | **1911–39**: dev work incl 2 shafts, drifting, u/g and surface dd, prod. | 50,000 at $8/t Au (c 0.228 oz/t) Au) ***1938***<br>(NM 03/11/38) | Less subsequent recovery of 4,830 oz Au plus 2,727 oz Ag from 24,592 tons milled in 1939. |
| ONT. 228 | TYRANITE<br>Tyranex Gold Inc.<br>41 P/11<br>47°40'00" 81°00'08" | Gold in 2 parallel carbonatized and pyritized shear zones in andesite near a peridotite contact. | **1930–38**: trenching, dd, shaft to 1,150' with 7 levels established.<br>**1939–42**: 223,810 tons milled.<br>**1987–89**: dd, tailings processing. | Geol. res.: 526,000 at 0.2 oz/t Au ***1988***<br>(Ont MP 138, p 290). | Operations were stopped due to a wartime labour shortage. There are about 250,000 tons of 0.034 oz/t Au tailings. |
| ONT. 229 | CHESTER RESOURCES<br>Canadian Gold Res. Inc.<br>41 P/12<br>47°34'00" 81°53'00" | Gold with po, py, cp, as disseminations and fracture fillings. | **1930's**: surface exploration.<br>**1979–86**: tr, geol, geoph, dd, bulk sampling. | 18,000 at 0.19 oz/t Au ***1987***<br>(CMH 1988–89 p 89) |  |
| ONT. 230 | GROVES (EVECO)<br>Gold Bar Resources Inc.<br>41 P/12<br>47°37'40" 81°37'30" | Po, pn, cp and millerite in 500' x 28' zone on sheared footwall of a qtz diorite to gabbroic sill. | **1953–56**: mag and geol surveys, 18 ddh.<br>**1963**: geoph survey, 12 ddh.<br>**1967**: geochem and geoph surveys, 5 ddh. | 500,000 at 2% Ni, 1% Cu ***1973?***<br>(CMH 1989–90 p 193). | Joint venture with Timmins Nickel Inc. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 231 | KINGBRIDGE<br>Chesbar Res Inc.<br>41 P/12<br>47°33'30" 81°54'15" | Auriferous narrow qtz veins. | **1933–37**: dd, Gomak shaft to 85', u/g dev, Strathmore shaft to 125'.<br>**1945–46**: test pitting, dd.<br>**1965**: mag and EM surveys, dd.<br>**1970–73**: Ronka EM–16 and IP surveys, dd, bulk sampling, opencast mng.<br>**1981**: dd, new headframe, new zone, geochem, geoph.<br>**1982–89**: dd, decline, geoph, bulk sampling. | 423,546 at 0.223 oz/t Au ***1987***<br>(CMH 1988–89, p 325) | Joint venture with Murgold Res Inc. |
| ONT. 232 | YOUNG–SHANNON<br>Young–Shannon GML<br>41 P/12<br>47°33'30" 81°55'45" | Visible gold in qtz vein 3' wide x 70' long x 250' deep. | ***1930–32***: discovery, trenching.<br>***1936–46***: shaft, u/g dev, dd.<br>***1973***: dd.<br>***1976–79***: u/g dev, o/p mng.<br>***1981***: 2 ddh, 1,344'. | Blocked out: 3,680 at 0.46 oz/t Au ***1937***<br>(Ont OFR 5156, p 140, 1975) | Test shipments in 1979. |
| ONT. 233 | MIDLOTHIAN<br>Campbell Res Inc<br>(in 1987)<br>41 P/14<br>47°52'55" 81°00'20" | U–shaped deposit of Archean asbestos–bearing peridotite intrudes Archean rhyolite. Asbestos is in the form of cross and slip fibres in stringers and veinlets. | ***1950–53***: geoph and dd.<br>***1970–74***: dd, prep for o/p mng, 4,000 t/d mill erected.<br>***1975–77***: operation, 600,000 tons milled, 10,800' dd.<br>***1980–81***: engineering and cost est for poss prod. | 26,127,000 at 7.5% Asb to 400' ***plus*** 7,491,000 which needed further testing ***plus*** 120,000,000 at unstated grade to 1000'<br>***1977***<br>(FP Corp Serv, United Asbestos Inc, 06/02/79) | Mill dismantled. |
| ONT. 234 | SOTHMAN<br>Sothman ML<br>41 P/14<br>47°50'55" 81°14'40" | Po, pn, violarite and cp occur as net textured sulfides along embayments in the footwall of a concordant sill–like ultramafic body. | **1950–53**: aeromag survey and ground follow–up, 37 ddh.<br>**1956**: geol mapping, dd.<br>**1966**: dd.<br>**1981**: geoph survey. | Dd–ind: 210,000 at 1.29% Ni ***plus*** 400,000 at 0.90% Ni ***1956***<br>(Kirkland Mnrls Corp L, 1956 AR) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 235 | STAIRS<br>Goldteck Mines Ltd.<br>41 P/14<br>47°54'30" 81°04'00" | Shear zones contain gold bearing qtz veins within Archean conglomerate. | **1944–47**: mapping and trenching.<br>**1962–66**: dd, adit and shaft sunk, u/g dev incl drifting, crosscutting, raising and dd, prod.<br>**1980**: dd, geoph, geochem.<br>**1981**: sampling, dd.<br>**1983**: dd, tailings treated.<br>**1987–88**: stripping, tr, dd, geoph, dd, u/g exploration. | 80,000 at 0.38 oz/t Au<br>***1986***<br>(NM 15/06/87) | |
| ONT. 236 | MATACHEWAN CONSOLIDATED<br>Matachewan Cons ML<br>41 P/15<br>47°57.5' 80°40.5' | Qtz veins and stringers occur with Au, Ag, py, cp, Mo in volcanics and in porphyry. | **1917**: discovery.<br>**1919**: 2 shafts, 170' and 33'.<br>**1933–34**: dd, u/g work, mill erected.<br>**1934–52**: prod 370,427 oz Au, 133,710 oz Ag from 3,525,000 t milled.<br>**1969–70**: dd, claim staking.<br>**1979–82**: prod. | N/A | Pamour Porcupine leased the property in 1979 and ceased mining operations in spring 1982. To restart operations it is est that gold price needs to be $US600/oz. Tailings optioned by Goldteck Mines Ltd. |
| ONT. 237 | RYAN LAKE<br>Geo–Pax ML (in 1974)<br>41 P/15<br>47°58'24" 80°41'42" | Porphyry-type cp, py and po in shear zones cutting Archean peridotite, syenite and volcanics in mine area. Cp and mo in qtz veins associated with syenite porphyry in North Porphyry area. | **1947–48**: dd and expl, mag and SP surveys.<br>**1951–64**: 175 t/d mill built, Cu–Au–Ag recovered from 184,790 tons milled in **1948–64**; Mo recovered by treatment of tailings in **1962–64**; metallurgical tests.<br>**1966–67**: geol mapping, dd by Cominco, option terminated in 1967. | ***(i) Mine area***: 531,000 ind–poss at 1.0% Cu, 0.25% $MoS_2$<br>(NM Nov 1964)<br>***(ii) North Porphyry***: 600,000 inf at 0.30% Cu, 0.35% $MoS_2$<br>***1964***<br>(CMH 1964, p 244) | The proven and estimated ore in the mine was given in 1964 at 110,000 tons at 2% Cu and 0.74% $MoS_2$. Operations were halted in 1963 due to a mill fire. Mining resumed in 1966–67 for a short time. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 238 | YOUNG–DAVIDSON<br>Young–Davidson ML<br>41 P/15<br>47°56'50" 80°41'35" | Tapered cone–shaped body of syenite porphyry hosts gold mineralization. Fine gold in fractures and associated with py disseminated in syenite. | **1916**: discovery.<br>**1923–25**: dd, 200' shaft.<br>**1934–56**: mng operations from o/p until 1939, then u/g on 7 levels; 585,690 oz Au and 131,939 oz Ag recovered from 6,128,272 tons milled.<br>**1965, 1974**: dd, geol.<br>**1978–79**: records re–examined.<br>**1980–81**: dd, geoph, geochem.<br>**1986–88**: dd. | ***(i) Boundary Zone***:<br>2,311,639 at 0.059 oz/t Au **1987**<br>***(ii) Welsh Zone***:<br>975,635 at 0.043 oz/t Au **1987**<br>(Young Davidson ML 1987 AR) | Leased to Pamour Inc. |
| ONT. 239 | BALDWIN<br>Baldwin Cons ML (in 1986)<br>42 A/1<br>48°05'56" 80°09'44" | System of auriferous qtz veins at contact of Timiskaming sediments and Keewatin volcanics. | **1918–36**: shaft to 420', u/g and surface dd, 81 tons milled. | Ind: 5,040 at $22.30/t Au (cut) ***1946***<br>(G L Holbrooke 19/08/46 for Baldwin Cons ML) | All high values were cut, then final tonnage and grade were cut by 40%. |
| ONT. 240 | BLACK PROSPECT<br>Black GML (in 1958)<br>42 A/1<br>48°08'58" 80°01'28" | Fractured qtz stringers contain gold with py; in a fault zone. | **1917**: shaft, dd.<br>**1932–37**: u/g exploration, dd. | No. 2 Vein: 200' x 3' at 0.07 oz/t Au<br>(East drift) ***plus***<br>95' x 3' at 0.07 oz/t Au<br>(West drift)<br>***1935 ?***<br>(Ont MDC 18, p 169) | |
| ONT. 241 | ERG<br>ERG Resources Inc.<br>42 A/1 | Tailings | N/A | 32 000 000 Mmt at 0.54 g/mt Au ***1987?***<br>(CMH 1988–89, p 162) | Unspecified tailing locations in Kirkland Lake area. |
| ONT. 242 | FREEGOLD<br>Freegold Recovery Inc.<br>42 A/1 | Tailings. | **1986**: overburden drilling.<br>**1987**: geol, geoph, sampling.<br>**1988**: mapping, tr. | 600 000–800 000 at 0.02 oz/t Au ***1980***<br>(NM 22/09/86) | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 243 | GOODFISH (MURRAY)<br>J JG Ray Estate<br>(in 1973)<br>42 A/1<br>48°12′08″ 80°00′30″ | Qtz–carbonate fracture zone containing Au cuts Archean volcanics near felsic intrusions. | **1912–40**: trenching, mapping, 5 shafts, No 1 shaft to 620′, No 3 to 180′. | 30,000 at $12/t Au ***1938***<br>(FP Surv Ms 1938–39, p 167) | Channel samples from one lens avg 0.379 oz/t Au over a length of 100′ and a width of 24′. |
| ONT. 244 | HUDSON–RAND<br>Cons Canorama Expls L<br>(in 1977)<br>42 A/1<br>48°08′25″ 80°01′40″ | Gold–bearing py and cp occur in qtz stringers in fracture zones in syenite porphyry. | **1917–37**: shaft to 800′ and winze to 1,050′, 100–ton mill, 6,496 tons milled.<br>**1946–53**: reopened mine, dd, expl from 6,575′ horizon of adjacent Lake Shore ML property. | 45,000 at $8/t Au with 15% dil ***1947***<br>(Ont AR 1948, Pt 5, p 44) | Cons Canorama Expls L charter cancelled 1980, revised 1981. |
| ONT. 245 | KIRANA KIRKLAND<br>Nova Beaucage Mines Ltd.<br>42 A/1<br>48°11′16″ 80°01′08″ | Basalt at the contact of qtz porphyry has been altered to silica, calcite and other carbonates. Gold is found in the alteration zone. | **1916**: shaft to 340′, 1000′ drifting and crosscutting.<br>**1936–37**: dewatered shaft, 820′ of crosscutting. | Ind: 50,000 at 0.4 oz/t Au ***1937***<br>(Ont OFR 5156, p 610, 1975) | Minnova Inc. option. |
| ONT. 246 | TECK–HUGHES MINE<br>Teck Corp.<br>42 A/1<br>48°07′45″ 80°03′25″ | Native gold and tellurides in qtz veins with less than 2% sulphides. The ore zones are in or along Kirkland Lake Fault cutting sedimentary, volcanic and syenitic rocks. | **1911**: staking.<br>**1913–14**: tr, shafts, u/g exploration.<br>**1917–68**: production: 3,686,828 oz Au, 461,320 oz. Ag.<br>**1987–89**: u/g exploration, dd. | Dd–ind: 375,000 at 0.25 oz/t Au ***1987***<br>(NM 5/09/88) | Optioned by Newfields Minerals Inc. U/g work through Lac Minerals No 5 shaft. |
| ONT. 247 | WRIGHT–HARGREAVES<br>Lac Minerals L<br>42 A/1<br>48°09′05″ 80°02′44″ | Tailings dump. | **1913–20**: 2 shafts.<br>**1921–65**: 9,734,402 tons milled; during 1957–65 the ore was processed at Lake Shore's mill; workings extended to 8,100′ below surface.<br>**1981**: feasibility study. | 644,200 at 0.069 oz/t Au ***1980***<br>(CMH 1981–82, p 353) | Pilot test ind 70–75% recovery rate.<br>In 1982, Long Lac Mnrl Expln L was studying feasibility of retreating tailings here and from Lake Shore mine. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 248 | ASHLEY<br>Canorex Intl Inc,<br>Camart ML,<br>Petromet Res L<br>42 A/2<br>48°00'50" 80°53'48" | Auriferous qtz veins cutting Archean basaltic flows. | **1930–36**: shaft to 570', winze to 750'; 157,636 tons milled.<br>**1937**: small prod.<br>**1946–47**: dewatered workings, dd, discovery of new vein.<br>**1973**: trenching.<br>**1980**: decline shaft portal renovated.<br>**1981**: geol survey, geoph.<br>**1985**: dd. | 280' x 2.5' at 0.5 oz/t Au in new vein ***1947***<br>(NM 04/12/47) | The main vein, the Ashley, was 2,000' x 2.5' at 0.3–0.4 oz/t Au, before mng began. The vein was apparently mined out by 1936. |
| ONT. 249 | TEXMONT<br>New Texmont Expls L<br>42 A/3<br>48°09.7' 81°12.5' | A steeply-dipping, partially serpentinized lenticular body of peridotite contains nickel sulphide minerali-zation, in a zone up to 200' wide and at least 1,800' long. Sulphides incl py, po, pn with minor cp and violarite. | **1951–60**: prospecting, mapping, geoph, dd, 5 level shaft to 790', u/g work.<br>**1965–66**: dd.<br>**1971–72**: 196,816 tons milled, placed on standby. | ***(i) "A" zone***: 730,000 proven at 0.96% Ni; 860,000 dd–ind at 0.96% Ni<br>***(ii) South zone***: 1,600,000 dd–ind at 0.89% Ni<br>***1971***<br>(O E Leigh, 15/10/71 for Texmont ML) | Both zones drilled to 1600'. |
| ONT. 250 | AUMO<br>Andex ML (in 1983)<br>42 A/5<br>48°21'30" 81°38'42" | Qtz–carbonate stringers containing py, cp, po with some Au and Ag are found within a shear zone in granite. | **1911–28**: trenching, shaft to 60' dd.<br>**1945–46**: 20,000' of dd in 60 holes.<br>**1980**: dd. | ***(i) No 2 vein***, dd–ind:<br>No 1 zone: 700' x 2.5' at 0.12 oz/t Au, 2.0 oz/t Ag, 2.07% Cu to max 190' depth<br>***plus*** No 2 zone: 460' x 2.5' at 0.20 oz/t Au to max 170'<br>***(ii) No 5 vein***, ind by 3 ddh: 340' x 1.5' at 0.90 oz/t Au<br>***c 1946***<br>(VSE SMF, Andex ML, 5/03/80) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 251 | MORDEY<br>United Asbestos Inc (in 1973)<br>42 A/5<br>48°28'55" 81°33'35" | Cp, sph and py in cherty qtz matrix of brecciated andesitic lava and rhyolite porphyry. Au and Zn values encountered. | **1926–28**: staked, geoph survey, trenching, 14 ddhs.<br>**1937, 1945–46**: dd.<br>**1956**: surface work, geoph survey, 7,634' in 31 ddh.<br>**1960–66**: geoph surveys, dd, 200 t/d mill, shaft sunk, u/g dev, small prod.<br>**1968–69**: dd, resource calcs.<br>**1977**: airborne mag, EM and rad surveys by Ont. | Ind: 133,200 at 2.22% Cu in H, A, and C zones ***1969***<br>(Allied Mng Corp, 1969 AR) | Production was halted in November 1966 due to financial difficulties and later bankruptcy of Irvington Mng CL. Assets sold to United Obalski Mng CL in 1967. |
| ONT. 252 | ORPIT<br>Holmer GML<br>42 A/5<br>48°22'55" 81°33'00" | Gold is found in qtz carbonate stringers in argillite. Mineralization is up to 60' thick by 600' long to 800' depth. | **1911–28**: surface work, shallow shafts.<br>**1938–45**: dd.<br>**1964–75**: mag survey, dd, geol mapping.<br>**1981**: feasibility studies, 13 ddh, stripping, sampling, mapping.<br>**1987–89**: geol. geoph, dd. | 720,000 at 0.11 oz/t Au to 850' ***1982***<br>(NM 12/08/82)<br>***or*** 440,000 at 0.15 oz/t Au ***1987***<br>(Holmer GML 1987 AR) | Feasibility study ind a 300 t/d operation. |
| ONT. 253 | ALLERSTON<br>Petromet Res L<br>42 A/6<br>48°28'03" 81°10'05" | Archean carbonatized dunite peridotite has up to 90% talc and magnesite. | **1970**: dd.<br>**1975–78**: tr, sampling, geol, geoph, dd. | ***(i) North zone***:<br>6,318,000 at 46% talc, 33.3% magnesite<br>***(ii) South zone***:<br>31,590,000 at 50% talc, 37% magnesite<br>***1977***<br>(Ont GR 219, p 109, 110, 1982) |  |
| ONT. 254 | ANKERITE<br>Vedron Ltd.<br>42 A/6<br>48°26'30" 81°16'18" | Gold in tourmaline–quartz–carbonate veins in Archean volcanic rocks. | **1911**: shafts, main shaft 350'.<br>**1923**: u/g exploration.<br>***1926–53***: prod. 1,014,924 oz Au and 85,151 oz Ag.<br>***1978***: open pit mining. | 190,000 at 0.145 oz/t Au above 1,550' level ***1985 ?***<br>(NM 18/04/85 p A10) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 255 | AUGDOME<br>Augdome Corp L<br>42 A/6<br>48°27'20" 81°14'40"<br>(Gold Zone) | Ultramafic rocks altered to serpentinite intrude Keewatin volcanics. Auriferous qtz and carbonate stringers occur in the NW edge of the serpentinite. A large band of minute inclusions of millerite as well as a narrow lean Fe fm consisting of magnetite and siderite, also occur within the serpentinite. | **1909–35**: trenching, 8 ddhs.<br>**1936–49**: examined from 1050' level of the Preston East Dome mine, dd, mag.<br>**1959–64**: surface and u/g dd.<br>**1965–68**: discovery and dd on iron and nickel zones.<br>**1974**: renewed dd on gold zone.<br>**1980–85**: deep dd on gold zone, geoph and dd Cu–Ni zone.<br>**1986–88**; tr, geoph, sampling , dd. | ***(i) Gold zone***: 142,800 at 0.15 oz/t Au ***1981***<br>(CMH 1981–1982, p 44)<br>***(ii) Nickel zone***: 50,000,000 ind of "marginal nickel ore" ***1968***<br>(NM 04/07/68)<br>***(iii) Iron zone***: 20,000,000 ind at about 30% soluble Fe to 1000' ***1967***<br>(NM 26/01/67) | Gold zone is open at both ends. The grade in the nickel zone appears to be around 0.17% Ni. Dd being done by Dome ML from their 4200' L to check Augdome structure. |
| ONT. 256 | AUNOR<br>Giant Yellowknife Mines Ltd.<br>42 A/6<br>48°26'30" 81°16'42" | Gold in qtz veins and brecciated Archean andesite. Gangue minerals are carbonate and tourmaline. Metallic minerals are scheelite, py, cp. | **1909–15**: surface exploration.<br>**1936–39**: dd, shaft.<br>**1940–71**: prod. 2,194,549 oz. Au, 147,282 oz Ag.<br>**1972–84**: prod. | 402,000 at 0.146 oz/t Au ***1986***<br>(Giant Yellowknife Proxy Circular, Feb1987) |  |
| ONT. 257 | CARMAN BAY<br>Seneca Devs L (in 1977)<br>42 A/6<br>48°22'30" 81°00'30" | Ni–bearing ultramafic intrusive complex underlies an area 5,300' x 3,800'. Sulphides incl heazlewoodite, millerite, pn and awaruite. | **1967–72**: expl pits, line cutting, mag and EM surveys, dd, laboratory studies. | Ind: 740,000,000 at 4–6.5 lbs/t Ni ***1971***<br>(Seneca Devs L, VSE SMF 06/07/73) | The resource figure incls all peridotite material to a depth of 1,000'. |
| ONT. 258 | CARSHAW<br>Marshall Minerals Corp.<br>42 A/6<br>48°22'40" 81°05'10" | Qtz–carbonate veins and stockworks containing py, po, gal and Au are present in an Fe fm consisting of chert and mag. | **1931**: dd, shaft to 143', minor prod.<br>**1945–51**: surface and u/g dd, drifting.<br>**1981**: bulk sampling, 4,000' dd, site clearing.<br>**1982**: 5,000' dd, dewatering.<br>**1983–85**: milling, o/p mng. | 200,000 at 0.205 oz/t Au ***1987***<br>(NM 15/02/88) | Bulk sample of 3,000 lbs in 1981 returned 0.73 oz/t Au, 2.84 oz/t Ag. Ore is free milling and expected recovery rate is 97.3%.<br>St. Genevieve Resources option in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 259 | DE SANTIS GOLD MINE<br>Stan North Mining Corp.<br>42 A/6<br>48°25'18" 81°23'08" | Gal, sph, cp and scheelite in qtz veins in interflow lavas, in qtz tension fractures and in silicified porphyry dykes. | **1914–22**: two expl shafts.<br>**1931–39**: shaft deepening, u/g dev, minor prod in 1933.<br>**1939–42**: prod at 160 t/d, recovery of Au–Ag–$WO_3$.<br>**1944**: dd.<br>**1960–63**: dd, u/g work.<br>**1981–85**: dd.<br>**1987**: u/g exploration, dd. | 161,359 at 0.239 oz/t Au ***1988***<br>(NM 26/12/88) | Closed in 1942 due to wartime priorities. Golden Terrace Res option. |
| ONT. 260 | DELNITE<br>Giant Yellowknife Mines Ltd.<br>42 A/6<br>48°26'10" 81°17'34" | Carbonatized Archean basalt enclosed in serpentinized ultramafics contains native Au and Au in association with py and asp. | **Pre–1928**: surface work.<br>**1931–36**: shaft sinking, mill erected.<br>**1937–64**: 3,847,364 tons milled.<br>**1964–present**: workings used to service Aunor (Pamour No 3 mine) mine.<br>**1981–85, 88-89**: dd. | 'In place, stopes, sills, drifts': 114,767 at 0.240 oz/t Au ***1964***<br>(Delnite ML, 1964 AR)<br>or prob & poss: 200,000 at 0.29 oz/t Au (CMH 1989-90, p 205) | Mining from open pit in 1987 or 1988. |
| ONT. 261 | FULLER<br>Vedron Ltd.<br>42 A/6<br>48°27'08" 81°16'40" | Gold in qtz and carbonate in Archean volcanic rocks. | **1923**: dd, incline shaft.<br>**1940–42**: prod 6,566 ozs Au, 8 oz Ag.<br>**1986–89**: decline ramp, u/g exploration, bulk sampling, dd. | 380,000 at 0.16 oz/t Au ***1988***<br>(Vedron Ltd, Rept. to shareholders, Jan 15, 1989) |  |
| ONT. 262 | HOLLINGER<br>ERG Resources Inc.<br>42 A/6<br>48°28'07" 81°18'21" | Tailings. | N/A | N/A | The property has a portion of 65,000,000 tons of gold bearing tailings derived from its mine. The other (larger) portion is on the Kayorum property. (NM 28/03/85). Other tailings areas were in production around Timmins in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 263 | HUNTER<br>Wabigoon Res L<br>42 A/6<br>48°29'32" 81°10'23" | Gold with pyrite in qtz lenses. | **1908**: discovery.<br>**1910–14**: shaft 280'.<br>**1927**: u/g sampling, dd.<br>**1935–40, 1944**: shaft 855', 6 levels, prod 1,369 oz Au, 86 oz Ag, from 10,821 tons.<br>**1945–48**: dd, geoph.<br>**1983–88**: sampling, str, geoph, dd, u/g exploration. | Proven, prob and poss: 160,000 at 0.237 oz/t Au ***1970***<br>(NM 30/05/88)<br>***or***<br>1,500,000 grade unstated Au ***1988***<br>(Wabigoon Resl L, Letter to shareholders 23/03/89) | Joint venture with Master Resources & Dev. Ltd. |
| ONT. 264 | KAYORUM<br>ERG Resources Inc.<br>42 A/6<br>48°27'22" 81°18'35" | Tailings deposit. | N/A | Greater portion of 65,000,000 tons gold bearing tailings. The other amount on Hollinger ground.<br>(NM 28/03/85) | The property has most of the tailings of the Hollinger mine. Other Timmins area tailings were being mined in 1989. |
| ONT. 265 | LANGMUIR<br>Noranda ML and Inco L<br>42 A/6<br>48°19'50" 81°02'08" | Py, po, pn and cp found either massive, disseminated, in ultramafic flows with spinifex or as breccia along the basal contact of an ultramafic flow unit. | **1959–60**: EM survey, dd.<br>**1964–66**: ground mag and EM, dd.<br>**1973–78**: u/g dev, mng operations, expl dd; mng ceased 1978 after prod of 25,729,600 lbs Ni. | Mineable reserves: 187,475 at 1.79% Ni ***1988***<br>(NM 3/07/89) | Timmins Nickel option. |
| ONT. 266 | McINTYRE PORCUPINE (SCHUMACHER)<br>Giant Yellowknife Mines Ltd.<br>42 A/6<br>48°28'48" 81°17'45" | Gold in qtz carb veins in Archean volcanic rocks and porphyries. Cp, py, bornite, tennantite, molybdenite in Pearl Lake Porphyry. | **1909–11**: discovery, exploration.<br>**1912–88**: prod to 1987 10,735,319 oz Au plus silver. copper production:<br>**1963–81**: copper production: 10 162 640 mt at 0.62% Cu. | 1,030,000 at 0.146 oz/t Au **1988**<br>(Giant Yellowknife Mines Ltd., 1988 AR) | Copper zone figures N/A. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 267 | McWATTERS<br>Coldstream ML<br>Quebec Manitou ML (in 1976)<br>42 A/6<br>48°18'48" 81°02'28" | Py, pn, millerite and minor cp, disseminated to massive, within ultramafic intrusion. Best zone: 300' long x 50' wide, to 300' depth. | **1961–62**: mag and EM surveys, dd.<br>**1964–65**: dd, metallurgical test.<br>**1967**: deep EM survey, dd.<br>**1971**: geoph surveys, metallurgical tests, dd. | Dd–ind: 477,768 at 0.73% Ni in Upper zone plus 165,790 at 1.92% Ni in Lower zone (15% dil) ***1964***<br>(Ont GR 86, p 47, 1970) | No significant mineralization was located beneath or along strike of the deposit. |
| ONT. 268 | NAYBOB<br>Kenilworth ML<br>42 A/6<br>48°25'15" 81°20'25" | Auriferous qtz veins, in rusty carbonatized schists which have been altered from basic Archean lavas. | **1915–31**: shaft to 719', 6 levels established.<br>**1932–48**: intermittent prod, shaft deepened to 1347', 5 more levels established.<br>**1962–65**: u/g work, some prod, a total of 304,100 tons milled during 1932–64.<br>**1986–87**: dd, u/g exploration. | **(i) Tailings:** 1,000,000 at 0.129 oz/t Au in tailings *c* ***1962***<br>(NM 06/09/73).<br>**(ii) In place:** 27,735 at 0.23 oz/t Au (cut) ***plus*** small tonnage below lowest level.<br>(W R Dunbar 28/11/65, ***in*** Prospectus, Kenil-worth ML, 23/02/66) |  |
| ONT. 269 | PAYMASTER<br>Placer Dome Inc.<br>42 A/6<br>48°27.5' 81°15.8' | Gold–bearing qtz–carbonate veins in greenstone, dacite and spherulitic and amygdaloidal pillow lavas intruded by and associated with several bodies of qtz porphyry. The deposits are located on the south limb of the Porcupine Syncline. | **1915–30**: intermittent prod from 2 mines.<br>**1934–66**: 9 shafts, prod to 6,025' level, majority of the 5,607,402 tons milled.<br>**1972–73**: feasibility study.<br>**1978–79**: feasibility study – results N/A.<br>**1980**: cost study.<br>**1986**: dd. | 519,000 at 0.25 oz/t Au (cut) to 6,000' level ***1972 ?***<br>(CMH 1975–76, p 32)<br>***or*** 295,300 at 0.256 oz/t Au ***1966***<br>(Porcupine Paymaster L, 1966 AR)<br>***or*** 795,000 at 0.23 oz/t Au<br>(NM 04/12/80) | Joint venture with American Reserve Mining Corp. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 270 | PORCUPINE SOUTHGATE<br>Cdn Magnesite ML<br>(in 1987)<br>42 A/6<br>48°22'25" 81°16'20" | Magnesite, talc and silica alteration of serpentinized ultrabasics, which intrude Archean lavas. The whole complex is cut by qtz diabase dykes. Magnesite content is as high as 60% and more. | **1945–46**: dd, mapping, claims surveyed and patented.<br>**1959**: mapping, dd, sampling, minor testing.<br>**1963**: dd, metallurgical testing.<br>**1964–65**: pilot plant tests by Lakefield Research and CANMET.<br>**1970–75**: further testing to produce high purity talc and adequate quality magnesite. | Dd–ind: 100,000,000 at 50% magnesite, 25–30% talc *c* ***1963***<br>(Ind Mnrls, p 41, Apr 1971) | Mineable by o/p. Tests in 1975 indicated a high quality talc could be produced but the iron content of the magnesite is too high. |
| ONT. 271 | PRESTON MINE<br>Diepdaume ML<br>42 A/6<br>48°27'17" 81°14'21" | Qtz–ankerite stringers in porphyry; qtz veins in fractures; shatter zones; and composite orebodies occur in qtz–feldspar porphyries within Keewatin volcanics. | **1909–15**: discovery, shaft sinking, some u/g dev.<br>**1922–26**: dd, shaft on Martin property to 265', u/g dev.<br>**1933–39**: u/g preparation for dev, some mng.<br>**1939–68**: mng operations: 6,284,405 tons milled at 0.245 oz/t Au and silver.<br>**1980**: new headframe.<br>**1981**: rehabilitated u/g to 750' level, dd.<br>**1982**: geol and drill surveys, dewater to 500'.<br>**1984–85**: dewatering.<br>1988–89: 600 t/d mill. | "A significant tonnage in the 0.15 oz/t Au range" ***1979***<br>(NM 01/11/79) | |
| ONT. 272 | TISDALE–ANKERITE<br>Vedron Ltd<br>42 A/6<br>48°27'06" 81°16'24" | Gold in veins in Archean rocks in contact with serpentinite. | **1938**: dd.<br>**1951–52**: u/g development prod. 2,263 ozs Au. | Pot: 391,680 at 0.157 oz/t Au<br>(NM 29/02/81) | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 273 | TOMMY BURNS<br>Marshall Mnrls Corp<br>42 A/6<br>48°22'48" 81°05'03" | Auriferous qtz fractures in Fe fm consisting of hematite, qtz and mag. | **1910–23**: 2 short shafts.<br>**1931–46**: test pitting, dd, u/g work, 292 ton test sample shipped to the Buffalo Ankerite mill.<br>**1964–65**: dd.<br>**1979–80**: sampling, dd.<br>**1981**: dd, geoph. | Dd–ind: 30,000 at 0.27 oz/t Au **1986**<br>(NM 13/01/86) | |
| ONT. 274 | PORCUPINE PENINSULAR<br>Giant Yellowknife Mines Ltd.<br>42 A/7<br>48°29'44" 80°58'26" | Gold in qtz veins and carbonatized breccia zones with py and asp in Archean rocks. | **1907**: staking.<br>**1917**: shaft<br>**1922**: u/g development.<br>**1924–27**: prod 27,354 oz Au, 5,746 oz Ag.<br>**1933–35**: dd, sampling.<br>**1945–48**: u/g exploration, dd.<br>**1973–74**: dd.<br>**1978**: decline ramp, open pit mining.<br>**1986–87**: u/g exploration, dd. | 1 270 000 mt at 3.2 g/mt ***1987***<br>(Pamorex Minerals Inc. 1988 AR) | |
| ONT. 275 | PREMIER LANGMUIR<br>Peerless Cdn Expls L (in 1967)<br>42 A/7<br>48°16'55" 80°59'40" | Barite veins along volcanic–intrusive contact contain subhedral crystals or fine-grained crystalline aggregate. Some ultramafics. | **1911–49**: 190' adit, 2 shafts, 30 ton mill, u/g dev, prod of 1,955 tons $BaSO_4$.<br>**1964–66**: re–evaluation of barite veins, dd, EM and mag surveys.<br>**1982**: ddh. | Ind: 112' x 3.72' at 68.9% $BaSO_4$ **or 336 T/VF** at 55.7% $BaSO_4$ ***plus*** 450' x 5' at 55.7% $BaSO_4$ or 250 T/VF at 55.7% $BaSO_4$ ***1965***<br>(Ont GR 86, p 53, 1970) | **In 1965, possible nickel sulphide mineralization associated with ultramafics was examined. Core assays ranged from 0.3 to 0.17% Ni. 1982 dd was done by Extender Mnrls of Can L.** |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 276 | GOLDEN ARROW<br>Canadian Arrow ML<br>42 A/8<br>48°27'22" 80°24'06" | Gold with diss py in fractured and silicified Algoman syenite stock. Zone appears to be in a fault and subsidiary fractures. | **1935–37**: surface sampling, trenching, dd, No 1 shaft to 48'.<br>**1946–47**: No 2 shaft to 429', surface and u/g dd, drifting, crosscutting.<br>**1974**: 15,000 ton bulk sample.<br>**1979**: dd.<br>**1980–83**: o/p prod. | Proven & prob: 440,174 at 0.099 oz/t Au ***1980 ?***<br>(CMH 1988–89, p 89) | Pamour Porcupine ML had a 20 year lease. Pre-production tons and grade. Between 1980 and 1982 mined 276, 900 tons of 0.054 oz/t Au. |
| ONT. 277 | GUNNAR<br>Stroud Res Inc.<br>42 A/8<br>48°29'20" 80°18'40" | Mineralized zone cutting mixed acidic and intermediate volcanics. | **1949, 74, 80, 81, 86–89**: dd. | ***Creek Zone***: 754,000 at 0.188 oz/t Au ***1989***<br>**Main zone**: 102,000 at 0.170 oz/t Au ***1989***<br>(Stroud Resources Inc. News Release 1/06/89) |  |
| ONT. 278 | KELORE<br>Goldpost Resources Inc.<br>42 A/8<br>48°29'45" 80°17'10" | Gold mineralization in syenite and adjacent syenitized lavas found mostly along qtz stringers. | **1934–35**: dd, trenching.<br>**1939–40**: shaft sunk 320', u/g dev incl work on 3 levels and dd.<br>**1946–49**: dd, shaft to 450', u/g dev, drifting, crosscutting, raising and dd.<br>**1973–76**: mapping, sampling, mag and EM surveys, dd, mine dewatered, u/g expl, dd, drive from Ross mine incomplete.<br>**1986–89**: dd, u/g exploration, 2 declines. | Dd–ind and poss: 835,599 at 0.17 oz/t Au ***1988***<br>(Gold Post Resources Inc. 1988 AR) |  |
| ONT. 279 | LUDGATE LAKE<br>Garrison Creek Cons ML<br>42 A/8<br>48°29'04" 80°05'35" | Gold in Archean acid intrusions within a zone 1,200' long, extending to a depth of 700'. | **c 1946**: discovery.<br>**1946–47**: tr, 15,612' dd, mag.<br>**1981–84**: dd, mag, geoph, geochem.<br>**1987–88**: dd. | ***(i) Lake zone***: 1,115,000 pot at 0.095 oz/t Au<br>***(ii) South zone***: 83,000 pot at 0.12 oz/t Au ***1981***<br>(NM 10/06/82) | South zone T–G est from data from 2 ddh only. Coniagas Mines Ltd. option. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 280 | MELBA<br>Canreos Minerals (1980) Limited<br>42 A/8<br>48°20'05" 80°07'12" | Qtz–calcite vein in greywacke and parallel to andesite contact. | **1934–39**: trenching, dd, shaft to 246', u/g work.<br>**1959–62**: resampled workings, u/g dd. | 20,000 at 0.25 oz/t Au ***1981 ?***<br>(Ont MP 138, p 272) | 2,000 tons avg 0.20 oz/t Au reported in dump. |
| ONT. 281 | VIMY<br>Vimy GML (in 1964)<br>42 A/8<br>48°28'00" 80°23'30" | Gold and py in qtz stringers within altered basic pillow lavas. | **1934–36**: prospecting, trenching, dd, o/p dev, shallow shaft, bulk sampling.<br>**1946**: mag survey, dd.<br>**1961–64**: dd. | Ind: 13,200 ***or*** 352' x 4.2' at 0.234 oz/t Au ***1946***<br>(NM 14/11/46) | |
| ONT. 282 | ALJO MINE<br>Dalhousie Oil CL (in 1978)<br>42 A/9<br>48°37'25" 80°21'08" | Gold associated with qtz and py in fracture fillings within volcanics and intrusions. | **1916–24**: shafts to 200' and 450'.<br>**1937–40**: No 2 shaft deepened to 575' with a winze to 650', 2,333 tons milled. | ***(i) Eastern Mine Area***: 10,000 at 0.20 oz/t Au<br>***(ii) Stockpile***: 7,000 at 0.08 oz/t Au<br>***1940 ?***<br>(Ont AR 1947, Pt 7, p 22) | |
| ONT. 283 | ARGYLL<br>Equinox Resources Ltd.<br>42 A/9<br>48°36'35" 80°23'43" | Gold, tellurides, py, asp, sph in qtz–calcite vein. | **1915**: discovery.<br>**1917**: shaft to 200', levels at 100' and 200'.<br>**1946–47**: dd.<br>**1981–82**: mag, geol, dd, VLF–EM, str, bulk sampling.<br>**1987–89**: u/g expl, dd. | 1,000,000 at 0.204 oz/t Au ***1988***<br>(Equinox Resources Ltd., News Release, 9/10/87) | |
| ONT. 284 | GIBSON WEST<br>Goldpost Res Inc.<br>42 A/9<br>48°30'17" 80°19'00" | Gold in silicified and brecciated altered syenite. | **1946, 1949**: dd.<br>**1978–85**: mag, EM, dd.<br>**1985–88**: decline, u/g expl, dd. | Dd–ind: 19,230 at 0.59 oz/t Au **1988**<br>(Goldpost Resources Inc. 1988 AR) | Drifting on the 200' horizon averaged 0.56 oz/t Au across 7' for 130'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 285 | HEADWATER<br>Hardill Res L<br>42 A/9<br>48°36'30" 80°21'00" | Auriferous qtz veins in carbonatized intermediate to mafic flows. | **1913–16**: exploratory shaft.<br>**1921–28**: shaft to 514', 2 winzes, u/g dev on 5 levels.<br>**1933–34**: mill erected, mine dewatered, stoping, prod.<br>**1944–45**: dd.<br>**1957**: surface expl, dd.<br>**1980–81**: u/g expl. | 109,451 at 0.484 oz/t Au ***or*** 375,000 at 0.286 oz/t Au ***or*** 128,000 at 0.857 oz/t Au ***1957 ?***<br>(NM 20/03/80) | 81 oz Au and 33 oz Ag from 500 tons between 1923–34. Joutel Resources Ltd. holds option. |
| ONT. 286 | HISLOP<br>Matachewan Consolidated Mines L<br>42 A/9<br>48°30' 80°20' | Gold in qtz veins and stringers. | **1935–37**: dd, shaft 170', u/g expl.<br>**1946**: dd.<br>**1988–89**: str, sampling, dd. | 200,000 at 0.09 oz/t Au to 300' depth ***1988 ?***<br>(Alban Explorations news release 20/06/88) | Alban Explorations – Noranda option. |
| ONT. 287 | WHITE–GUYATT<br>White–Guyatt Mng CL<br>42 A/9<br>48°32'25" 80°15'19" | Mineralized qtz vein in sediments. | **1908–15**: 2 shafts, small u/g dev.<br>**1936–46**: trenching, dd, 1432' lateral dev.<br>**1980**: bulk sampling.<br>**1987**: tr, geoph, geochem. | 110' x 2.58' at 0.31 oz/t Au ***1936***<br>(CMH 1938, pp 288–89) | In 1911, 10 oz Au were recovered from 50 tons of ore. Lac Minerals holds option. |
| ONT. 288 | AQUARIUS<br>Asarco Expl C of Can L<br>42 A/10<br>48°31'21" 80°52'57" | Free gold in talcose carbonated ultramafic host adj to a talc–chlorite schist. | **Pre–1936**: geoph.<br>**1940–46**: 62 ddh.<br>**1946–48**: shaft to 565', levels at 400', 525', dd.<br>**1967**: EM, 1338' dd.<br>**1980**: 23 ddh.<br>**1982**: 20,000' u/g dd, test mill 150 t/d, 9,000 t dev ore milled.<br>**1984**: prod 32,000 at 0.225 oz/t Au.<br>**1985–89**: u/g expl, intermittent prod. | 205,000 at 0.22 oz/t Au ***1985***<br>(Asarco Inc, 1985 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 289 | CLAVOS<br>Canamax Res Inc<br>42 A/10<br>48°36'52" 80°48'20" | Gold in basalt and argillite adjacent to Pipestone fault. | **1945–48**: mag, dd.<br>**1983–88**: geoph, dd. | Dd–ind: 1,160,000 at 0.15 oz/t Au ***1987*** (Canamax Res Inc. 1987 AR) | Joint venture with Bruneau Mng Corp. Royalty to Clavos Porcupine ML. |
| ONT. 290 | GOLDHAWK<br>Giant Yellowknife Mines Limited<br>42 A/10<br>48°30'10" 80°56'45" | Gold in qtz stringers in porphyry dykes and volcanics. | **1907**: discovery, shaft, mill, dd.<br>**1930**: sampling.<br>**1934–35**: shaft 180'.<br>**1940–50**: dd, shaft 641', u/g work, prod.<br>**1960–61**: dd.<br>**1980**: prod. | 275,000 at 0.11 oz/t Au ***c 1985*** (United Kingdom Energy Inc, VSE SMF 164/85) | The tonnage and grade probably calculated before production. |
| ONT. 291 | MONTCLERG<br>Bruneau Mining Corp.<br>42 A/10<br>48°37'42" 80°41'30" | Gold with py, asp in stockwork of qtz stringers. In silicified zone in volcanic rocks. | **1938**: discovery, dd.<br>**1939–42**: dd, mag.<br>**1964–65**: dd.<br>**1981**: mag.<br>**1986–87**: dd. | 370,000 at 0.132 oz/t Au ***1986*** (NM 9/03/87) |  |
| ONT. 292 | PORPHYRY<br>St Andrew Goldfields L<br>42 A/10<br>48°34'00" 80°36'50" | N/A | **1962–64**: dd.<br>**1979–81**: dd, discovery?<br>**1986–88**: shaft, u/g expl, dd. | 100,000–200,000 grade unstated Au ***c 1981*** (St Andrew Goldfields L, news release 30/01/86) |  |
| ONT. 293 | RONNOCO<br>Trader Resource Corp.<br>42 A/10<br>48°30'42" 80°54'30" | Gold with py in porphyry. | **1914**: shaft.<br>**1946–47**: dd.<br>**1989**: dd. | 4,100,000 at 0.103 oz/t Au ***1989 ?***<br>***or*** Pot: 10,000,000 at 0.1 oz/t Au ***1989?***<br>***plus*** poss: 850,000 at 0.07 oz/t Au in shaft zone ***1989 ?***<br>(NM 14/08/89) |  |
| ONT. 294 | SHOOT<br>St Andrew Goldfields L<br>42 A/10<br>48°33'45" 80°38'35" | N/A | **c 1960**: discovery, dd.<br>**1979–81**: dd.<br>**1987–88**: dd. | 1,700,000 at 0.13 oz/t Au ***1987*** (CMH 1988–89, p 401) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 295 | BROULAN MINE<br>Belmoral Mines Ltd.<br>42 A/11<br>48°31' 81°08'18" | Gold in qtz–carb veins and zones in Precambrian greywacke and slate. Associated metallic minerals include 2%–3% py, po, sph, gal and cp. | **1936**: resistivity, dip needle.<br>**1938–39**: dd, shaft 611'.<br>**1939–53**: prod. 243,757 oz Au<br>**1984**: dd.<br>**1988**: u/g expl. | C–zone: 100,000 at 0.11 oz/t Au ***1988***<br>(Belmoral ML 1st Quarter Report 31/03/89) |  |
| ONT. 296 | CHANCE<br>Chance Mining and Exploration Co. Ltd.<br>42 A/11<br>48°41'50" 81°24'05" | Zinc, lead sulphides with silver in Archean felsic volcanic rocks. | **1958**: geoph, dd.<br>**1977**: dd, discovery.<br>**1980–88**: dd, geoph. | 250,000 at 12% Zn, 4% Pb, 6.5 oz/t Ag ***1984***<br>(NM 30/05/85) | 7,000' west of Kidd Creek mine. |
| ONT. 297 | DAVIDSON TISDALE<br>Davidson Tisdale ML<br>42 A/11<br>48°30'55" 81°13'28" | Gold occurs at the contact of a qtz vein and altered basalt, and also within fracture planes in the flows. | **1916–24**: shafts to 810', 312', 9,371 tons milled.<br>**1945**: dd.<br>**1978–79**: reopened on 500' level, 50 t/d mill set up, drifting on 800' level.<br>**1980–82**: geoph, stripping o/p area, 829 tons milled.<br>**1984–86**: u/g work, dd.<br>**1987–89**: prod 40,000 tons, dd. | Mineable: 55,000 at 0.23 oz/t Au ***1988***<br>(NM 22/08/88) | Joint venture with Total Energold Corp. Pre-production reserves. |
| ONT. 298 | HALLNOR MINE<br>Giant Yellowknife Mines Ltd.<br>42 A/11<br>48°31'06" 81°08'36" | Py, po, sph and Au in qtz veins within carbonatized zone along basalt–sedimentary contact. Upper orebodies contained higher grade ore than Lower bodies. | **1935–73**: dd, shaft to 3,477' with u/g dev on 22 levels, incline winze to 3,700' and internal shaft to 5,060'.<br>**1974–76**: small prod.<br>**1980–82**: prod. | Ind: 826,000 at 0.108 oz/t Au ***1986***<br>(Giant Yellowknife Joint Proxy Circular, Feb. 1987) | During 1935–76, about 1,600,000 oz Au and 114,000 oz Ag were recovered from 4,197,210 tons of ore. |
| ONT. 299 | HOYLE MINE<br>Falconbridge Gold Corp.<br>42 A/11<br>48°31'45" 81°05'30" | Gold in qtz veins with py, asp, po, cp, sph mainly in Archean conglomerate and greywacke. | **1935–37**: dd, shaft.<br>**1938–41**: shaft 1,800', mill.<br>**1941–49**: prod 71,830 ozs Au and 6,741 ozs Ag. | 5 441 000 mt at 2.7 g/mt Au ***1987 ?***<br>(Falconbridge Gold Corp Prospectus 23/11/88) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 300 | INTEX–FRANKFIELD<br>Intex Mng CL,<br>Frankfield Expls L,<br>Gowest Amalgamated Res L<br>42 A/11<br>48°44'05" 81°12'00" | Intex zone in brecciated marcasite–py–graphitic tuff within flows intruded by a peridotite. Frankfield Au–qtz veins in tuffaceous andesite near peridotite contact. | **1965–70**: mag and EM surveys, dd.<br>**1974–76**: dd.<br>**1980**: geoph.<br>**1981**: dd, 11,000', geoph.<br>**1982**: dd.<br>**1987–89**: dd. | (i) Frankfield/Texmont zones: 300,000–400,000 at 0.24 oz/t Au *c* ***1980*** (NM 21/04/86)<br>(ii) Gowest zone: 310,000 at 0.23 oz/t Au ***1989*** (NM 24/07/89) | Dd in 1987–88 intersected zone at 1,500' on the Gowest ground. |
| ONT. 301 | NICKEL OFFSETS<br>Canhorn Mining Corp.<br>42 A/11<br>48°43'24" 81°11'12" | Gold with py, cp in qtz–carb stringers within early Precambrian tuffs. Zone traced for a length of 750' and to depth of 600'. | **1964**: ground and airborne EM and mag.<br>**1969**: discovery, dd, 14,675'.<br>**1981**: dd, 11,000', geoph.<br>**1987–88**: dd. | Ind: 650,000 at 0.17 oz/t Au (cut and dil) *or* ind: 300,000 at 0.27 oz/t Au to 600' depth ***1981*** (NM 23/07/81) | Overburden is about 100' deep. Tonnage includes 20% dilution, original zones reported to have been extended by 1981 dd. Golden Princess Mng option in 1989. |
| ONT. 302 | REEF MINE<br>Belmoral Mines Ltd.<br>42 A/11<br>48°30'42" 81°10'24" | Probably similar to the Broulan mine. Gold in quartz veins in carbonated andesite. | **1915–17; 19**: shaft, prod.<br>**1944–45**: dd.<br>**1946–47**: shaft.<br>**1947–65**: prod 498,828 oz Au and 38,907 oz Ag.<br>**1984**: dd.<br>**1988**: u/g expl. | Inferred: 336,000 at 0.14 oz/t Au ***1988*** (Belmoral Mines Ltd., 1st Quarter Report 31/03/89) | Zone is to the west of Reef mine. |
| ONT. 303 | HOLLINGER–LOVELAND<br>Moneta Porcupine Mines Inc.<br>42 A/12<br>48°39'45" 81°43'10" | N/A | N/A | 455,000 at 0.71% Ni, 0.42% Cu (CMH 1989–90, p 323) | Tonnage previously outlined by Hollinger. |
| ONT. 304 | LUCAS<br>Abitibi–Price Inc<br>42 A/14<br>48°49.5' 81°12' | Mineralized zone is in black cherty rock containing qtz stringers and veins with py dipping N. | **1980**: discovery.<br>**1981**: dd.<br>**1982**: 9 ddh, 5,437', geoph.<br>**1987–88**: dd. | ***Est***: 235,000 at 0.10 oz/t Au ***1982*** (OGS MP 107, p 87, 1983) | Zone occurs between 250'–450' depth along 200' with true width of 27'. Lucas Gold Res Corp option in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 305 | GROUNDHOG<br>J Charlebois<br>(in 1971)<br>42 B/1<br>48°00'04" 82°19'48" | Auriferous qtz vein in shear zone within Archean schistose chloritic andesite. | **1918**: discovery.<br>**1928–48**: stripping, pitting, dd, geoph. | 1000' x 3.4' at 0.31 oz/t Au ***1948***<br>(Ont MDC 18, p 66, 1979) |  |
| ONT. 306 | HOODOO<br>Marshall Minerals Corp.<br>42 B/1<br>48°08.4' 82°16.0' | Gold with py, cp in qtz and qtz–carb stringers in Archean volcanic rocks. | **1946–47**: sampling, dd.<br>**1987–88**: str, sampling, dd. | ***(i) Vein zone***: 95 T/VF at 0.14 oz/t Au<br>***(ii) Stockwork zone***: 542 T/VF at 0.14 oz/t Au ***1987***<br>(NM 15/02/88) |  |
| ONT. 307 | JOBURKE MINE<br>Noranda Expl Co.<br>42 B/1<br>48°08'50" 82°17'00" | Gold in qtz veins in altered Archean volcanic rocks. | **1946–49**: shaft, u/g expl.<br>**1964**: dd.<br>**1973–81**: dd, prod 28,440 ozs. Au.<br>**1988–89**: dd. | Geol reserves: 600,000 grade unstated Au ***1989***<br>(NM 17/07/89) | Tarzan Gold Inc. option. |
| ONT. 308 | LEFEVER–SILAMS<br>G Lafleche (in 1973)<br>42 B/1<br>48°01'42" 82°19'48" | Po, cp and py within Au– and Ag–bearing qtz–carbonate veins and stringers in mafic volcanics and metagabbro. | **1936**: trenching, dd.<br>**1948–60**: trenching, sampling, dd. | 250' x 150' x 4"–20" at 0.43–3.46 oz/t Au, nil–0.80 oz/t Ag ***1960***<br>(Ont OFR 5097, pp 82–83, 1973) |  |
| ONT. 309 | QUEENSWAY<br>G Lafleche (in 1973)<br>42 B/1<br>48°01'10" 82°13'14" | Py, cp and asp in shear zones within feldspar porphyry dykes. | **1936**: stripping, trenching, 1 ddh.<br>**1950–51**: 2 ddhs, 2 test pits.<br>**1961–63**: 4,247' of dd. | 250' x 3.0' at 0.51 oz/t Au ***plus*** 200' x 1.7' at 0.25 oz/t Au ***1963***<br>(Ont OFR 5,156, p 221, 1975) | 22 holes drilled in 1961–63 but depth extensions of zones not given. |
| ONT. 310 | REEVES MINE<br>JM Asbestos Inc<br>42 B/1<br>48°12'20" 82°04'59" | An irregular–shaped stock of serpentinized dunite is cut by numerous asbestos– bearing fractures. The asbestos zone is c 500' wide and is at least 2,200' long. | **1952–53**: geoph, dd.<br>**1961–67**: trenching, dd, shaft, u/g expl, bulk sample sent to Munro mill, expl shaft subsequently filled in, mill erected on site.<br>**1968–75**: prod; to end of 1970 – 3,291,644 tons milled. | 20,000,000 at 3.0–3.5% Asb ***1967***<br>(Ont GR 97, p 68, 1972) | Mill capacity 5,000 t/d. Mine closed in 1975 due to problems with excessive fibre content in plant air. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 311 | NEMEGOSENDA<br>Eastmaque Gold Mines Ltd.<br>42 B/3<br>48°01'10" 83°05'08" | Alkaline intrusions host pyrochlore, U, Th, rare earths, Zr, apatite and mag. Ore block measures 600' x 800' x 600' deep. | **1954–61**: airborne mag survey, detailed geol and mag survey, dd, 580' adit, test sample. | Ind: 20,000,000 at 0.47% $Cb_2O_5$ in Zone 'D' ***1956***<br>(Ont SMDR 001108, 1976) | Pilot plant studies in 1961 indicate that the ore is amenable to direct chemical treatment with 90% recovery of columbium. |
| ONT. 312 | BRAMINCO<br>Canreos Minerals (1980) Ltd.<br>42 B/5<br>48°21'52" 83°51'26" | Several auriferous qtz veins within an Archean granodiorite batholith. | **1946–47**: 12,771' of dd.<br>**1984–86**: bulk sampling, dd, u/g work.<br>**1987–88**: prod silica, gold, about 65,000 tons. | 100,000 at 0.13 oz/t Au (cut) ***plus*** 28,400 at 0.15 oz/t Au ***1947***<br>(FP Surv Ms 1950, p 151) | Silica gold ore was used as a flux in Kidd Creek copper smelter. Preprod reserves. |
| ONT. 313 | NUDULAMA<br>Anglo Dominion Gold Expl L<br>42 B/5<br>48°22'38" 83°51'25" | Gold in qtz veins with py, gal and cp in gneissic portions of Archean granite batholith. | **1947–51**: dd, 7 level shaft to 1,065'.<br>**1974–75**: dd, IP, dd.<br>**1985–87**: decline ramp, prod silica, gold 77,094 tonnes containing 12,235 oz Au. | 593,000 at 0.13 oz/t Au ***1988***<br>(NM 9/05/88) | Silica–gold flux ore shipped to Kidd Creek smelter. |
| ONT. 314 | RENNIE<br>Westfield Mnrls L (in 1985)<br>42 B/5<br>48°25'02" 83°56'12" | Stringers of sph, py and some gal and cp in tuffaceous metapyroclastics. | **1939**: discovery.<br>**1946–53**: stripping, dd.<br>**1961–71**: mag, EM, IP, stripping, trenching, dd.<br>**1980**: geochem, geoph, dd.<br>**1981–85**: pros, geoph, geochem, dd, tr. | 74,000 at 12% Zn, 9 oz/t Ag ***1984***<br>(Westfield Minerals 1984 AR) | Staked additional claims in 1980. |
| ONT. 315 | MONTCALM<br>Teck Corp (30%)<br>Metall Mining Corp (30%)<br>Domik Expl L (30%)<br>Lynx–Can Expls (10%)<br>42 B/9<br>48°40'30" 82°05'30" | Disseminated to massive po, pn, cp and py hosted by porphyritic mafic rocks. Gabbroic intrusion cut by 10 to 40 m thick granite dyke. | **1975–77**: airborne EM, ground follow-up, dd, 11.5 mi winter road, feasibility study.<br>**1980**: road constructed.<br>**1981**: feasibility study, new zone discovered. | 4 500 000 mt at 1.42% Ni, 0.66% Cu ***1988***<br>(CMH 1988–89, p 296) | In 1977 project was deemed feasible at 1,100 t/d milling rate. Production decision deferred pending improved Ni market. A 19 km road was built to the property. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 316 | BIG LAKE<br>Algoma Central Railway<br>42 C/2<br>48°10'18" 84°36'22" | Two py lenses in a N–S Algoma type iron formation within mixed mafic and felsic metavolcanics are cut by diabase sills. | **1950–51**: geol, X–ray dd, discovery.<br>**1953**: dd, res est.<br>**1967**: some expl work. | Ind: 1,907,650 at 30.7% S, 39.0% Fe, 7.87% $SiO_2$ ***plus*** poss: 462,420 at 30.2% S, 33.8% Fe, 8.6% $SiO_2$ ***1953***<br>(A W Jeckell 06/03/67 ***in*** Prospectus, Jogran ML 05/04/67) |  |
| ONT. 317 | EGO<br>Ego Res L (45.64%)<br>United Canso Oil & Gas L (38.36%)<br>Convego Res L (16%)<br>42 C/2<br>48°14'10" 84°37'40" | Cp, po, py and sph associated with some Au in a shear zone 1,000' l x 200' w x 600' d within volcanic rocks. | **Pre–1918**: trenching, test pitting.<br>**1959–65**: geoph survey, tr, extensive dd.<br>**1974–78**: dd, 2 declines driven, feasibility study.<br>**1980**: 4,000' dd, feasibility study.<br>**1987**: dd, geoph. | 370,000 at 1.6% Cu, 0.11 oz/t Au in 7 zones to 500' d ***1974***<br>(NM 03/10/74) | An economic operation was not possible in 1978. United Canso is current operator. |
| ONT. 318 | GOUDREAU<br>Algoma Central Railway<br>42 C/2<br>48°14'00" 84°36'05" | Qtz–carbonate veins in shear zone within Archean metavolcanics. Main vein 2,000' x 2'–10'. | **1921–40**: 2 shafts, intermittent prod totalling 23,211 tons.<br>**1958–61**: rehabilitated No 1 shaft, u/g dd and sampling.<br>**1982**: geol survey.<br>**1986–88**: dd. | 60,000 at $11.20/t Au ***1961***<br>(NM 27/04/61) | Corona Corp. option. |
| ONT. 319 | HOLDSWORTH<br>Soocana Mng CL (in 1940)<br>42 C/2<br>48°14'00" 84°36'05" | A qtz vein containing py, cp, po, and gal within mafic lavas. | **1933–34**: dd, shaft to 160', 60 tons milled. | Ind: 20,000 at 0.57 oz/t Au ***1935***<br>(Sudbury Star 16/10/35) | 10 oz of Au and 5 oz of Ag were recovered. |
| ONT. 320 | HOLDSWORTH PYRITE<br>D G O'Reilly<br>42 C/2<br>48°06'32" 84°34'52" | Two massive py lenses in Archean metavolcanics. East lens is 1,100' long by 18'–25 wide and west lens 600' long by 31' wide. | **1918–19**: discovery, dd, res est.<br>**1926; 1929; 1959**: prop changed hands, work report N/A. | Dd–ind: 900,000 at 46.31% S in 2 lenses ***1919***<br>(GSC Mem 147, p 124, 1926) | The sulphur grade is based on the average value of 3 ddhs. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 321 | KOZAK<br>Algoma Central Railway<br>42 C/2<br>48°12'30" 84°32'45" | Qtz stringers and dis sulphs containing small amounts of sph, gal, py, cp and argentite, in qtz–sericite schist. | **1927–34**: trenching, shaft 110'.<br>**1952–61**: geoph, dd, u/g and surface sampling.<br>**1967–74**: surface work, dd, u/g expl.<br>**1980**: str, tr, sample.<br>**1981**: 4000' dd. | Ind: 359 T/VF at 0.18 oz/t Au, 8.06 oz/t Ag ***1961***<br>(CMH 1977–78, p 179) | Laurasia Resources holds lease. |
| ONT. 322 | LAKEMOUNT<br>Firespur Expls L<br>42 C/2<br>48°03'45" 84°37'40" | Disseminated cp, po, pn, minor py in a large mafic Archean intrusion of serpentinized peridotite and pyroxenite. | **Pre–1943**: trenching, pitting, stripping, dd.<br>**1944–45**: dd.<br>**1952–62**: geol and EM surveys, dd.<br>**1979–80**: tr, geoph, dd.<br>**1981–82**: dd. | 2,000,000 at 0.4% Cu, 0.6% Ni plus Pt ***1962***<br>(CMH 1963, p 164) | Evaluating number of base–metal showings. |
| ONT. 323 | MURRAY–ALGOMA<br>Murray–Algoma ML<br>(in 1939)<br>42 C/2<br>48°05'30" 84°36'45" | Several parallel auriferous qtz veins cutting volcanics. | **1933–37**: surface work, dd, adit, 500 tons test milled. | 6,000 at 0.43 oz/t Au ***1938***<br>(CMH 1938, p 193) | Average grade from test material was 0.17 oz/t Au. |
| ONT. 324 | RAND NO 2<br>Irsugo Cons ML<br>(in 1973)<br>42 C/2<br>48°05'30" 84°36'45" | Two EW trending qtz–py–siderite bands from 80' to 275' wide are composed of lower siderite member, intermediate py member and upper silica member within Archean meta-volcanics. | **1915–16**: discovery, dd.<br>**1920**: 100' adit.<br>**1941**: 11 ddh, u/g dev.<br>**1967–69**: u/g dev, dd, feasibility study completed. | Prob–poss: 13,000,000 at 25.9% S to 300' ***1969***<br>(NM 26/096/69) | A 2,000 t/d mill was planned but a market could not be found for the sulphur and the project was shelved. |
| ONT. 325 | REED–BOOTH PROSPECT<br>Soocana Mng CL<br>(in 1940)<br>42 C/2<br>48°05'55" 84°34'05" | Two silicified shear zones cut mafic lavas and qtz porphyry. | **Early–1930s–40**: shaft to 125'. | 80,000 Au, grade unstated ***1934***<br>(FP 03/11/34) | Mineralization was considered to be extractable by o/p methods. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 326 | REGENTRY METALS<br>Int'l Ranwick L<br>(in 1958)<br>42 C/2<br>48°04'35" 84°35'30" | Highly fractured granite batholith contains qtz and calcite stringers mineralized with mo. | **1937–40**: geoph, shaft to 243', 8,000' of dd, small bulk sampling mill and 400 tons milled.<br>**1958**: u/g sampling and dd. | 170,000 at 1.0% MoS2 to 300' ***1940***<br>(NM 18/01/40) | Concentrate obtained in 1939–40 was too low in $MoS_2$ and too high in Cu. |
| ONT. 327 | AMICHI<br>Windarra Minerals Ltd.<br>42 C/3<br>48°04'47" 85°23'35" | Gold showings in carbonated and silicified zones in sediments. | **1938**: surface work, dd.<br>**1948–52**: stripping, cross trenching, dd.<br>**1981–84**: geol, geochem, geoph, tr, dd. | 40' x 3.8' at 0.27 oz/t Au; 60' x 2.2' at 0.68 oz/t Au and 120' x 3.1' at 0.75 oz/t Au ***1951***<br>(J F Wright 14/04/51 ***in*** Prospectus, Amichi GML, 1951) |  |
| ONT. 328 | MACMILLAN–GRANGES<br>Granges Exploration Ltd.<br>42 C/3<br>48°07'00" 85°27'00" | Microscopic gold with py in an Archean cherty tuff horizon. | **1982**: staking.<br>**1985**: geochem.<br>**1986–89**: dd, geoph, tr, stripping, bulk sampling. | **(i) Underground zone:**<br>1,100,000 at 0.17 oz/t Au<br>**(ii) open pit zone:**<br>760,000 at 0.08 oz/t Au ***1988***<br>(NM 2/01/89) |  |
| ONT. 329 | GOUDREAU RANGE<br>Algoma Steel Corp L<br>42 C/7<br>48°16'30" 84°28'18"<br>(Morrison No 3) | Main ms py deposits associated with Archean qtz–carbonate–py iron fm of Algoma type sulphide facies hosted by mafic and felsic volcanics. | **1914**: test pits, dd of "D".<br>**1918–19**: geol survey, surface work on McPhail.<br>**1918–19**: trenching, dd, shaft to 230' with u/g dev on 2 levels on Morrison No 3.<br>**1963**: dd, res est. | ***(i) Goudreau "D"***:<br>150,000 dd–ind at 28.4% S, 41.3% Fe in South limb ***plus*** 150,000 dd–ind at 24.15% S, 36.38% Fe in North limb ***1914***<br>(Ont MRC 5, p 25, 1967)<br>***(ii) Morrison No 3***:<br>130,000 dd–ind at 31.7% S, 40% Fe, 6% $SiO_2$, o/p mineable ***1963***<br>(Ont MRC 5, p 28, 1967)<br>***(iii) McPhail***: 500'–600' x 40' at 38% S, 40% Fe, 6% $SiO_2$ ***1919***<br>(Ont SMDR 001017, 1974) | No further work has been performed on the range since 1963. Parts of the range were completely mined 1914–19 and 1959–62. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 330 | LOCHALSH<br>Canamax Resources Inc.<br>42 C/8<br>48°17'30" 84°26'00" | Gold in siliceous sections in quartz–sericite schist. | **1987–89**: discovery, dd, u/g work. | Dd–ind: 1,500,000 at 0.248 oz/t Au ***1988***<br>(NM 3/10/88) | Two km south of Kremzar mine. |
| ONT. 331 | MARKES<br>Transgold Resources Inc.<br>42 C/8<br>48°18'55" 84°19'15" | Gold in qtz veins. | **c 1939**: tr, dd.<br>**1986**: dd. | 72,000 at 0.167 oz/t Au ***1986***<br>(NM 20/02/89) | Cline Development Corp. has 40% interest. |
| ONT. 332 | PICK<br>Frank Tripoli (in 1974)<br>42 C/8<br>48°19'00" 84°21'30" | Au bearing qtz veins in greenstone belt. Ore mnrls incl Ag, Mo, and W. | **1918**: discovery.<br>**1924–42**: main shaft to 1,200'; 8 levels, u/g dev; 331,842 tons milled between 1938–48.<br>**1960–67**: dumps sampled, trenching, dd, u/g dewatering, drifting.<br>**1980–88**: geol, geoph, geochem, sampling, dd, tr. | Ind: 20,000 at $20/t Au (c 0.53 oz/t Au) ***1967***<br>(NM 24/10/68) | A decline in grade and poor development forced mine closure. Prophet Res and Cline Dev hold option in 1989. |
| ONT. 333 | SHAYNEE<br>Spirit Lake Expls Ltd.<br>42 C/8<br>48°19'30" 84°21'30" | Gold in veins in shear zones and fractures. | **1924–26**: staking, pits, tr.<br>**1933–38**: shaft, u/g expl and dev, dd, production 1936–37: 485 ozs Au, 37 ozs Ag.<br>**1962–63**: dd.<br>**1976**: geol, geochem, geoph, dd.<br>**1987–88**: geochem, geoph, stripping, dd. | Ind: 190,288 at 0.34 oz/t Au ***1988***<br>(NM 19/12/88) |  |
| ONT. 334 | GOLDEN SCEPTRE<br>Hemlo Gold Mines Inc.<br>42 C/12<br>48°42'10" 85°56'15" | Gold with py and mo and qtz in sheared Archean volcaniclastic and metasedimentary rocks. | **1945**: staking.<br>**1975–79**: geol, geochem.<br>**1980–84**: discovery, sampling, tr, geoph, geochem, dd. | 301,000 at 0.1 oz/t Au ***1984***<br>(NM 7/06/84) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 335 | INTERLAKE<br>International Interlake Industries Inc.<br>42 C/12<br>48°42'35" 85°55'35" | Gold together with realgar, py and mo. | **1983**: dd, discovery. | Dd–ind: 2,000,000 at 0.27 oz/t Au **1988**<br>(CMH 1988–89, p 263) | This tonnage is at a depth greater than 5,000'. |
| ONT. 336 | SUNRISE<br>Michipicoten GML (in 1952)<br>42 C/15<br>48°58'18" 84°44'04" | Several auriferous qtz veins within Archean diorite. | **1902–03**: shafts to 100' and 20'.<br>**1934–36**: surface work, test sample. | 200' x 32" at $14.50/t Au ***1934***<br>(NM 20/06/34) | A 1,450 lb test sample averaged 0.72 oz/t Au. |
| ONT. 337 | PLAYTER HARBOUR<br>Galex Mines Ltd. (in 1977)<br>42 D/9<br>48°34'50" 86°12'50" | Mo in qtz vein. | **1942**: expl.<br>**1968–69**: sampling, dd. | 665 T/VF ***1971***<br>(Prospectus Galex Mines Ltd, 15/7/71) | |
| ONT. 338 | NICOPAR<br>National ML (in 1972)<br>42 D/14<br>48°53'30" 87°18'05" | Po, py and mag with lesser amounts of cp and violarite as 3' width of massive sulphides along a contact of amphibolite and granite. Disseminated mineralization 10' into walls. | **1950–56**: mag and geol surveys, dd.<br>**1969–70**: detailed mag, dd, bulk sample. | Ind: 375,000 at 0.44% Ni, 0.19% Cu to 600' ***1970***<br>(Zenmac Mtl ML, 1970 AR | Recovery up to 93.9% Cu and 79.1% Ni with satisfactory concentrates of Ni–Cu or either separately. |
| ONT. 339 | PICK LAKE<br>Minnova Inc.<br>42 D/14<br>48°57'30" 87°18'05" | Bands of high–grade massive sulphs. | **1984–85**: discovery, dd. | 1.57 m wide, 1,000 m downdip at 0.7% Cu, 11% Zn, 17 g/mt Ag ***1985***<br>(Corp Falconbridge Copper 1985 AR) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 340 | HANNAM CLAIMS<br>Chavin of Can L<br>(in 1986)<br>42 D/15<br>48°48'20" 86°41'10" | Two fracture zones in chloritized trachytic volcanics containing erratic sph, py and gal. Width is 2' and combined length 1,300'. | **1951–53**: shaft to 51', adit, dd, geoph, 75 tons ore cobbed at shaft.<br>**1968–70**: EM, geochem, dd. | Ind: 35,000 at 27.65 oz/t Ag, 19.87% Pb, 9.08% Zn in No 1 zone plus 36,000 in No 2 zone ***1953***<br>(Ont MRC 12, p 304, 1968) | Small zone (but high-grade) suggests possible mining operation using a portable mill. D Bremner made the agreement with Chavin. |
| ONT. 341 | ANACONDA<br>Euralba Mining Ltd.<br>42 D/16<br>48°46'56" 86°19'25" | Po, py and cp as interstitial immiscible sulphide blebs associated with ilmeno–mag phase of Coldwell complex. | **1961–67**: geol, airborne and ground mag, IP surveys; trenching; pitting; considerable dd.<br>**1985–87**: metallurgical testing, reassaying, bulk sampling, dd, tr, stripping. | 50,000,000 at 0.014 oz/t Pt, 0.052 oz/t Pd, 0.014 oz/t Au, 0.073 oz/t Ag, 0.0013 oz/t Rh, 0.50% Cu, 0.038% Ni, 0.007% Co ***1987***<br>(Fleck News Release 5/06/87) | Assays for Cu ranged from 0.05–2%. Partnership with Fleck Resources Ltd. |
| ONT. 342 | COUBRAN LAKE<br>Parlake Res L (1984)<br>42 D/16<br>48°52'42" 86°29'42" | Disseminated po, cp and apatite associated with titaniferous mag lenses in olivine gabbro of the Port Coldwell alkaline complex. U, Th and rare earths in pegmatites cutting complex. | **1954**: geol mapping, dd.<br>**1959–68**: airborne mag and detailed EM surveys, extensive dd, metallurgical tests. | Dd–ind: 50,000 T/VF at 0.22% Cu, 30% Fe in main zone ***1964***<br>(Lakehead ML, 1964 AR)<br>***plus*** potential large tonnage at 0.3% Cu, 25% Fe, 4.5% $TiO_2$ in Lake 3 zone ***1968***<br>(Lakehead ML, 1968 AR) | A serious metallurgical problem was found in separating the iron and titanium. Optioned in 1980 by Denison ML, which did exploration on W part with negative results. |
| ONT. 343 | PRAIRIE LAKE<br>Deak Res Corp<br>42 E/2<br>49°02'18" 86°43'06" | Uranium and niobium occur in pyrochlore within or close to ijolitic rocks containing abundant wollastonite in the NW sector of the Prairie Lake Alkaline Complex. | **1968–70**: rad, mag and geochem surveys; dd.<br>**1975–78**: ground acquisition, rad survey, trenching, pitting, overburden dd, deeper dd, metallurgical tests.<br>**1983**: dd. | Ind: 200,000 at 1.8 lbs/t $U_3O_8$, 5 lbs/t $Cb_2O_5$ to 275' ***1978***<br>(NM 03/05/79) | This tonnage may be for the B–zone only. There are 4 known showings. Radioactivity indicated over 1,050' strike length. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 344 | AUMACHO<br>Urban Que ML (in 1977)<br>42 E/5<br>49°18'10" 87°59'55" | Three coarse grained spodumene pegmatite dykes occur in a granitic sill–like body. | **1955–57**: dd. | Ind: 759,455 at 1.65% $Li_2O$ in Nos 1 and 2 zones ***plus*** 96,000 at 1.5% $Li_2O$ in No 5 zone ***1957***<br>(Ont GR 31, p 64, 1965) |  |
| ONT. 345 | GEORGIA LAKE<br>Evergreen Energy Res L (in 1984)<br>42 E/5<br>49°18'00" 87°55'40" | Medium to coarse grained crystals of potash and plagioclase feldspars, qtz, spodumene with some muscovite and apatite in a pegmatite dyke cutting metasediments. | **1955**: 55 ddh totalling 13,555'.<br>**1957**: small amount of dd. | Ind: 2,000,000 at 1.09% $Li_2O$ ***plus*** poss: 4,000,000 $Li_2O$, grade unstated ***1955***<br>(N B Davies 27/12/55 ***in*** Prospectus, Ont Lithium CL, 31/01/56) | First discovery of lithium in Georgia Lake area. 27 claims held by lease, until 1991. |
| ONT. 346 | JEAN LAKE<br>Armeno Resources Inc.<br>42 E/5<br>49°23'42" 87°55'52" | Spodumene–bearing pegmatite dykes cut Archean metasediments. | **1955–56**: 28 ddh totalling 16,053', part of dd was not done on main zone.<br>**1957**: geoph.<br>**1987**: expl. | 1,689,000 at 1.30% $Li_2O$ ***1957***<br>(Jean Lake Lithium ML, 1957 AR) | Limits of deposit were never completely defined. Idle since 1957. |
| ONT. 347 | VEGAN<br>Armeno Resources Inc.<br>42 E/5<br>49°19'35" 87°57'20" | A spodumene–bearing pegmatite dyke intrudes metasediments. | **1955–56**: 48 ddh totalling 8227'.<br>**1984**: geol, geoph.<br>**1987**: expl. | 750,000 at 1.38% $Li_2O$ ***1956***<br>(NM 22/03/56) | Over a length of 1350' and a down–dip depth of 450'. |
| ONT. 348 | HARD ROCK MINE<br>Lac Mnrls L<br>42 E/10<br>49°40'38" 86°55'45" | Numerous Au–bearing sulphide qtz lenses occur in iron formation and greywacke. Some ore is found in qtz veins and stringers within albite porphyry and sediments. | **1931–32**: discovery, surface work.<br>**1934–51**: u/g mng from 2 shafts, approx 269,000 oz Au and 9,000 oz Ag were recovered from 1,458,375 tons milled on site. | Ind: 664,000 at 0.08 oz/t Au ***1950***<br>(CMH 1951, p 84) | The grade was too low for profitable mining in 1951, so the mine was closed. |
| ONT. 349 | KENOGAMINISIS LAKE<br>Hardrock Extension Inc.<br>42 E/10<br>49°40'05" 86°53'08" | Gold in qtz. (See Hard Rock). | **1986–88**: str, tr, dd, geoph. | Discovery zone: 800' long. | Best intersection 0.76 oz/t Au over 22.9'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 350 | MacLEOD–COCKSHUTT<br>Lac Mnrls L<br>42 E/10<br>49°40'42" 86°56'10" | See Mosher. | **1931–33**: staked, dd.<br>**1937–70**: No 1 shaft to 2,250' with 14 levels and 1 sublevel, connected to No 2 shaft and Mosher mine, mill, prod.<br>**1987**: 40 t/d mill. | See Mosher. | Between 1938–67, 1,366,404 oz Au and 90,864 oz Ag were recovered. Production incl with Mosher 1967–70. |
| ONT. 351 | MOSHER<br>Lac Mnrls L<br>42 E/10<br>49°40'46" 86°57'46" | Au–bearing qtz veins within sheared and fractured metasediments close to an albite porphyry intrusion, 'F' zone is 20'–60' wide, 400'–700' high and 8,300' along plunge. | **1933–39**: discovery, dd.<br>**1944–50**: drive from Talmora, expl work, dd.<br>**1952–58**: No 1 shaft to 2,530' with 10 levels and 2 sublevels, No 2 shaft – 52'.<br>**1959–70**: MacLeod–Cockshutt mine connected by u/g workings, prod began in 1962. | 869,873 at 0.107 oz/t Au combined for Mosher and MacLeod–Cockshutt ***1969***<br>(Ont AR 1969, p 21) | Resource calc prior 1970 salvage operations. Reasons for closing mine not given. Up to 1970, 513,424 oz Au and 34,604 oz Ag were recovered. |
| ONT. 352 | TALMORA LONGLAC<br>Tombill ML<br>42 E/10<br>49°41'25" 86°59'05" | Au, py, asp, cp, stibnite, antimony and some scheelite–bearing qtz veins in shears and fractures within greywacke and diorite. | **1934–39**: trenching, dd, shaft to 544' with 3 levels, u/g drifting, crosscutting and dd.<br>**1941–42**: 40 ton mill erected.<br>**1947–48**: prod, u/g dd.<br>**1974**: geoph, geochem.<br>**1981**: dd. | 12,000 at 0.37 oz/t Au ***1949***<br>(Ont AR 1950, pt 6, p 125) | In 1942 and 1948, 1,417 ozs Au and 36 oz Ag were recovered from 6,634 tons milled. |
| ONT. 353 | THERESA<br>Duration Mines Ltd.<br>42 E/10<br>49°41'19" 86°31'19" | Native gold, silver and bismuth tellurides in qtz veins and masses. The host rock is qtz diorite. | **1934**: discovery.<br>**1935–42**: intermittent prod, expl.<br>**1946–50**: shaft, mill, u/g work.<br>**1950–53**: prod total all years 4,785 oz Au, 202 oz Ag.<br>**1964**: dd.<br>**1972–73**: dd.<br>**1987–88**: dd, geoph, sampling, u/g work. | 540,000 at 0.2 oz/t Au ***1987***<br>(NM 16/11/87)<br>***or*** 1,000 T/VF ***1988***<br>(NM 21/03/88) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 354 | MAGNET CONSOLIDATED MINE<br>Roxmark ML<br>42 E/11<br>49°41'36" 87°03'12" | Two Au–bearing zones consisting of lenticular qtz veins and stringers in greywacke. Main zone developed along a length of 1,300'. | **1934–36**: trenching.<br>**1936–40**: 1,115' shaft, dd.<br>**1938–52**: prod 150,089 oz Au, 16,879 oz Ag.<br>**1981**: geochem, dd.<br>**1982**: VLF, mag surveys, dd.<br>**1983, 86, 87**: u/g exploration, dd. | 1,447,000 at 0.17 oz/t Au ***1983***<br>(NM 16/06/83) |  |
| ONT. 355 | McLELLAN GOLD MINE<br>J E Connors<br>42 E/11<br>49°41'36" 87°03'12" | Au in shear zones in greywackes and slates with iron formation. | **1933–36**: trenching, dd.<br>**1939**: dd.<br>**1941**: 327' shaft.<br>**1980–81**: reassessment, dd, geoph.<br>**1982**: dd. | 850 T/VF at 0.17 oz/t Au ***1937***<br>(NM 22/10/81)<br>*or* c 100,000 at 0.15 oz/t Au ***1981***<br>(Lynx Can Expls L, TSE LS 2806, 15/01/81) | Lynx Canada Expls L, Cdn Reynolds Mtls CL, Roxmark ML held the property in 1987. Lynx 1981 reassessment done on work of previous operators. |
| ONT. 356 | BROADVIEW<br>Broadview GML<br>(in 1957)<br>42 E/12<br>49°34'47" 87°58'25" | Vein, 500' long x 8.7' wide, in metavolcanics. | **1935–50**: trenching, dd, mag survey. | 500' x 8.69' at $14.85/t Au ***1936***<br>(CMH 1937, p 43) |  |
| ONT. 357 | BROOKBANK<br>Metalore Resources Ltd.<br>42 E/12<br>49°42'42" 87°50'00" | Stockwork of qtz veinlets in altered Archean volcanic rocks. | **1934**: dd.<br>**1974–75**: geol, mag, dd.<br>**1981–88**: dd. | 1,300,000 at 0.3 oz/t Au ***1988***<br>(Ont MP 142, p 112) | One drill intersection 0.747 oz/t Au over 39.2'. Currently, Placer Dome Inc. option. |
| ONT. 358 | COLEMAN<br>Cherbourg GML<br>(in 1945)<br>42 E/12<br>49°34'47" 87°51'18" | Au–bearing qtz calcite vein in sediments. | **1935**: stripping, trenching.<br>**1944**: dd. | 150' x 4' at $12/t Au ***1944***<br>(NM 12/04/45) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 359 | NEZAH<br>Craskie ML<br>42 E/12<br>49°39' 87°40' | Low to medium–grade gold ore shoots cutting Archean greywacke. | **1951–52**: trenching, dd.<br>**1973–74**: geoph and geochem surveys, dd.<br>**1979**: evaluation study. | Dd–ind: 430' x 6.6' at 0.17 oz/t Au; 350' x 6.9' at 0.19 oz/t Au; 150' x 6.8' at 0.18 oz/t Au; and 200' x 4.8' at 0.25 oz/t Au ***1952***<br>(Tombill GML, 1952 AR) | Craskie reviewed its property in early–1980 but determined that further work was not called for at this time. |
| ONT. 360 | NORTHERN EMPIRE<br>Ateba Mines Inc.<br>42 E/12<br>49°36'48" 87°56'30" | Gold in qtz vein with basalt. | **1926–27**: shafts.<br>**1934–41, 49**: prod. 149,493 oz Au, 19,803 oz Ag.<br>**1978–79**: u/g work, prod.<br>**1981–84**: mill, processing surface stockpile, u/g work.<br>**1987**: dd. | Contact vein: 111 000 mt at 9.56 g/mt possible ***1987***<br>(NM 9/03/87)<br>***plus*** 15,000 at 0.13 oz/t Au ***1986***<br>Power vein: 12,000 at 0.23 oz/t Au ***1986***<br>(Ateba Mines Inc. 1986 AR) | Producing gold from surface dumps. |
| ONT. 361 | OREMOND<br>Inco Ltd<br>42 E/12<br>49°41'15" 87°37'38" | Qtz–calcite fractures with Au and sulphs in Precambrian iron fm. Au zone is 150' x 7'. | **c 1936**: discovery.<br>**1936–37**: dd, shaft to 300', with levels at 150' and 275'.<br>**1963–69**: stripping, pitting, tr, dd.<br>**c 1977**: dd.<br>**1981**: sampling.<br>**1982**: mapping and sampling.<br>**1986–88**: dd. | Ind: 91 000 mt at 0.25 oz/t Au ***c 1977***<br>(OGS, MP 101, p 64, 1982) | Pronto Explorations Ltd. option. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 362 | STURGEON RIVER<br>Phoenix GML<br>42 E/12<br>49°45'00" 87°46'20" | Qtz veins in volcanics bear py, cp, sph, Au and Au telluride. | **1934–42**: surface work, dd, shaft sunk to 2,108' with 13 levels, 72,742 oz Au and 15,922 oz Ag recovered from 143,842 tons milled on site bt 1937–42.<br>**1955–56**: mill dismantled and sold.<br>**1972**: EM and mag surveys.<br>**1984–85**: geochem, geol, str, tr, sampling. | 70,000–72,000 Au grade unstated ***1986***<br>(Phoenix Gold Mines Ltd. 1987 AR) | The mine shut down due to labour shortage in October 1942. Reserves were sufficient to operate a further four years. Placer Dome Inc. Current option. |
| ONT. 363 | VEGA<br>Ateba Mines Inc.<br>42 E/12<br>49°38'07" 87°43'58" | N/A | **1950s**: staking.<br>**1974–75**: dd. | 800 T/VF at 0.23 oz/t Au ***1986***<br>(Ateba Mines Inc. 1986 AR) |  |
| ONT. 364 | CHELLEW<br>Park Lane Technologies Inc.<br>42 E/13<br>49°47'55" 87°48'55" | Qtz veins with cp, po and native gold cuts Archean metavolcanics. | **1946–47**: dd, 170 t bulk sample, 50' shaft.<br>**1977**: highgrade mining.<br>**1981**: highgrade mining.<br>**1982–88**: dd, milling, bulk samples, stripping, tr. | No. 1 Vein: 25,000 at 0.35 oz/t Au (geol reserve) ***1985 plus***<br>No. 2 Vein: 7,500 at 0.36 oz/t Au (pot) ***1985***<br>(Anglo-Canadian Mining Corp. p 1985 AR) | Ore was milled at Northern Concentrators mill in Thunder Bay with an average return of 0.265 oz/t Au. Anglo-Canadian Mining Corp. has 40% interest. |
| ONT. 365 | JACOBUS<br>Chesterville ML (in 1976)<br>42 E/13<br>49°49'37" 87°44'05" | Mineralized Archean diorite and gabbro sill complex intruding volcanics. Ni–Cu assays. | **1957**: trenching, mag and EM surveys, 46 ddh.<br>**1968–69**: dd, EM and mag surveys.<br>**1971–72**: further dd.<br>**1974**: property evaluation. | Ind: 937,538 at 0.41% Ni, 0.42% Cu ***1969***<br>(NM 22/07/71) | The deposit is open down plunge. A decline was planned but the companies went out of business. |
| ONT. 366 | DIK–DIK<br>Canadian Gold Resources Inc.<br>42 E/14<br>49°49'06" 87°29'18" | Gold in qtz vein cutting Archean volcanic rocks and granite. | **1931**: discovery.<br>**1933–34**: shaft, production: 2,460 ozs Au, 1,558 ozs Ag.<br>**1935–37**: mill, u/g work.<br>**1986**: geoph, dd. | 20,000 at 0.418 oz/t Au ***1986***<br>(NM 22/12/86) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 367 | BURROWS LAKE<br>Dave Petrunka<br>42 E/15<br>49°55'15" 86°46'00" | Mo in qtz veins in Precambrian porphyritic monzonite, gneissic granite and pegmatite. One zone: 6 m x 60 m with py, cp. | **c 1918**: discovery.<br>**1940**: tr, sampling, dd.<br>**1964–65**: dd, SP.<br>**1980**: bulk sampling, 1 360 mt.<br>**1982**: 800 mt milled. | 17 780 mt containing poss 340,829 kg $MoS_2$<br>***c 1968***<br>(OGS, MP 101, p 62, 1982) | Low–grade and scattered Mo zones. |
| ONT. 368 | MAYLAC MINE<br>Royal Oak Resources Ltd.<br>42 E/15<br>49°45'48" 86°57'55" | Auriferous veins in shear zones in intermed to mafic metavolcanics with py, gnt, sph. | **1934**: discovery.<br>**1938**: 250' shaft.<br>**1939**: dd.<br>**1946**: shaft to 450', dd, prod 1,518 t at 0.52 oz/t Au.<br>**1958**: dewatered, dd.<br>**1980**: review.<br>**1986–88**: geoph, geol, u/g work, dd. | Broken and in place: 11,080 at 0.7794 oz/t Au (Hutchison Lake GML, Analysis 05/10/38) | High–grade but erratic gold ore. |
| ONT. 369 | WILLECHO<br>Lac Mnrls L<br>42 F/4<br>49°10'30" 85°53'00" | Three zones of massive sulphide mineralization in gneiss with iron fm. | **1953–77**: geol, EM and airborne mag surveys, dd, shaft sunk 1,361' with 8 levels, decline drive and ramp established 5 more levels, prod 1965–77. | Combined with Willroy reserves. | Rising operating costs, higher freight rates and smelter costs low metal prices made the mine uneconomic. |
| ONT. 370 | WILLROY<br>Lac Mnrls L<br>42 F/4<br>49°09'26" 85°48'30" | Volcanogenic massive to disseminated sulphides with iron fm and Archean volcanics. | **1953–77**: staked, geol geoph, dd, No 1 shaft to 2,855' with 16 levels, No 2 shaft to 500', prod 1957–75 of 8,730,465 tons of Zn, Cu, Pb, Ag, Au, Cd and Bi ore. | 759,448 at 4.42% Zn, 0.28% Cu, 1.47 oz/t Ag Dec 31, ***1976***<br>(Willroy ML, 1976 AR) | Resources given include Willecho and Big Nama Creek. Mine shut down as uneconomic to operate. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 371 | CARGILL<br>Newphos Ltd.<br>42 G/7<br>49°18' 82°49' | Residual type phosphate deposit is confined mainly to an area over the Proterozoic Cargill carbonatite–alkalic complex. | **1955–57**: geol reconnaissance.<br>**1975–76**: 50,000' dd, testing by reverse circulation drill.<br>**1978**: feasibility study.<br>**1980**: testing, sampling, market and transportation studies.<br>**1982–85**: feasibility studies, bulk sampling, 100 t/d mill. | Dd–ind: 62,500,000 at 20% $P_2O_5$ ***1976***<br>(Intl Mnrls & Chem Corp (Can) L, 1976 10–K)<br>plus 1,000,000 at 0.015% $U_3O_8$, 0.07% $Cb_2O_5$, 1.0% rare earths<br>(Ont, Study 36, p 29, 1988) | Joint venture with Sherritt Gordon Ltd. |
| ONT. 372 | ARGOR<br>Esso Res Can L (60%) (in 1988)<br>Morrison Minerals Ltd. (28.9%)<br>Canray Res L (7.5%)<br>Argor Expls L (3.6%)<br>42 I/15<br>50°50' 80°35' | Pyrochlore mineralization 1,400' long, from 530'–650' wide and dd–ind to 450' depth within a granulite complex. | **1966–69**: 125' test shaft, bulk sample, feasibility study by joint venture – Esso, Cons Morrison Expls L, Goldray ML and Argor Expls L<br>**1980**: feasibility studies. | Ind: 62,500,000 at 0.52% $Cb_2O_5$ ***or*** 23,000,000 at 0.52% $Cb_2O_5$ o/p mineable to 400' depth ***1966***<br>(FP Surv Ms 1969, p 177) | Feasibility study completed in 1969 indicated a return on capital investment below that required to justify prod plans. |
| ONT. 373 | MATTAGAMI RIVER<br>Carlson ML<br>42 J/1<br>50°06' 82°11' | Unconsolidated qtz sand with kaolin matrix. | **1916**: discovery.<br>**1920s**: drilling.<br>**1972**: expl. | Proven: 50,000,000 silica and clay ***1972***<br>(CMH 1985–86, p 93) | |
| ONT. 374 | MARTISON LAKE<br>Newphos Ltd.<br>42 J/6<br>50°19' 83°24' | Precambrian carbonatite plug. Mineralization is phosphate residuum type. A 'blanket' residuum layer is also present. | **1965–66**: 1 ddh.<br>**1980–81**: 40 ddh, discovery. | Poss: 140 mill mt at 23% $P_2O_5$, 0.35% $Cb_2O_5$, also several mill mt at 0.5% $Cb_2O_5$ and rare earths ***1982***<br>(NM 13/01/83) | Shell Can Res L did discovery drilling. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 375 | CARNDESSON–ONAMAN LAKE<br>Onaman Joint Venture<br>42 L/4<br>50°02'02" 87°38'24" | Sulphide replacements within sheared contact zones between greenstone and narrow porphyry dykes. | **1949–54**: trenching, dd.<br>**1971–72**: geol, geochem and geoph surveys, dd.<br>**1976–present**: prospecting, trenching. | Ind: 320' x 5.9' at 9 oz/t Ag, 1.58% Zn, 1.14% Pb, 0.089 oz/t Au ***or*** 175 T/VF in No 5 vein ***1949***<br>(NM 23/06/49) | Pb and Zn values cut to 80% recovery. Joint venture of Lynx Canada Expls L, Dejour ML, Reynolds Mtls CL. Goldbrook Explorations option. |
| ONT. 376 | HEADVUE<br>Onaman Joint Venture<br>42 L/4<br>50°01'14" 87°39'38" | Disseminated and veins of sph, gal, Ag, qtz in subaerial rhyolite tuff. | **1950–52**: ground EM, 29,951' dd.<br>**1971–72**: geol, geochem and and geoph surveys, dd.<br>**1973**: IP survey, dd. | Ind: 250,000 at 4.6% Zn, 1.45 oz/t Ag, $1/t Pb–Au ***plus*** poss: 49,600 Zn–Ag, grade unstated ***1952***<br>(Ont OFR 5197, p 85, 1976) | Pb at 10¢/lb, Au at $35/oz. Deeper drilling by Noranda in 1974 suggested an additional 150,000 tons are available. Goldbrook Explorations holds option. |
| ONT. 377 | LYNX CANADA–ONAMAN LAKE<br>Onaman Joint Venture<br>42 L/4<br>50°01'04" 87°38'57" | Chalcopyrite stringer zones in Archean mafic to intermediate volcanics. | **1950–52**: prospecting.<br>**1971–78**: geol, geochem, IP, EM, and mag sureys, dd, trenching. | ***(i) No 2 zone***: 200,000–300,000 at 2% Cu, 1 oz/t Ag ***1977***<br>(NM 07/06/79)<br>***(ii) No 1 zone***: 50,000 at 3.6% Cu, 2.9 oz/t Ag, 0.07 oz/t Au ***1976***<br>(TSE LS 2806, Lynx–Can Expls L, 1981) | Onaman Joint Venture is comprised of Lynx–Can Expls L (37.5%), Dejour ML (37.5%), and Reynolds Mtls CL (25%). Goldbrook Explorations option. |
| ONT. 378 | PAULPIC<br>Canamax Res Inc<br>42 L/4<br>50°14'12" 87°39'35" | Narrow auriferous qtz veins within mafic volcanics. | **1920s**: trenching, dd.<br>**1939**: prospecting.<br>**1981–85**: dd. | 200 000 mt at 7.2 g/mt Au ***1985***<br>(CMH 1985–86, p 88) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 379 | TASHOTA NIPIGON<br>Tashota–Nipigon ML<br>42 L/4<br>50°02'50" 87°35'15" | Auriferous qtz in shear zones in metavolcanics Ag, Cu, Zn, Pb and Bi occur also. | **1923**: discovery.<br>**1927–29**: sampling and shaft sinking.<br>**1935–38**: 12,356 oz Au, 14,527 oz Ag and 360,306 lbs Cu recovered from 51,250 tons milled to 625' level.<br>**1967**: dd and shaft dewatered to 625' level.<br>**1979**: feasibility study.<br>**1980**: dd.<br>**1982–85**: dd, geoph. | 50,000 at 0.06 to 0.08 oz/t Au in tailings ***1979***<br>(Ont MP 91, p 49, 1980) | Lynx Can Expls L did 1979 feasibility study. |
| ONT. 380 | JUNEAU LAKE<br>Intl Mogul ML and North Coldstream ML (in 1970)<br>42 L/5<br>50°22'40" 87°56'55" | Po, py, cp, pn, violarite and mag in zone localized along a siliceous tuffaceous meta-sediment horizon within volcanics. | **Pre–1967**: airborne mag and EM.<br>**1967–69**: ground mag and EM, dd, metallurgical tests. | Ind: 2,200,000 at 0.87% Ni, 0.59% Cu (undil) ***1969***<br>(Intl Mogul ML, 1969 AR) | Low nickel recovery ind by metalurgical tests led to a discontinuation of exploration. |
| ONT. 381 | KENDON<br>Giant Gripp M Inc<br>42 L/5<br>50°25'20" 87°35'13" | Sulphide mineralization, probably epigenetic intra-volcanic but remobilized and concentrated by later folding. | **1954–55**: discovery.<br>**1961–70**: EM, mag and SP survey, extensive dd, feasibility study.<br>**1973, 1976–78**: IP, geol mapping, dd.<br>**1982**: dd, 10,000'.<br>**1988**: geol, geoph, tr, dd. | ***(i) NWT***: dd–ind: 2,200,000 at 1.22% Cu, 4.20% Zn, 2.45 oz Ag, 0.023 oz/t Au ***1980***<br>(NM 10/04/80)<br>***(ii) Kendon***: 267,000 ind at 1.45% Cu, 4.76% Zn ***1969***<br>(Ont Map P 561, Marginal Notes) | Drilling in 1977–78 is reported to have significantly increased the resources estimated |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 382 | LOUANNA<br>Cumo Res L<br>42 L/6<br>50°27' 87°05' | Au in mineralized zone in sheared tuffs and qtz porphyry. Sulphides incl asp, py, marcasite, po, cp and sph. | **1935–36**: staked, dd.<br>**1946–50**: dd, mng plant erected; shaft sunk to 347', u/g dd, crosscutting, drifting.<br>**1959–60**: dd, mag survey.<br>**1964–65**: dd, u/g lateral advances, raising.<br>**1972–74**: shaft deepened to 450', u/g dd.<br>**1979**: dewatered shaft, u/g sampling and mapping, feasibility study.<br>**1982–87**: sampling.<br>**1988**: tailings processing. | ***Est***: 113,128 at 0.352 oz/t Au ***1972*** ***plus*** new zone 7,000 t containing 2,000 oz Au ***1982*** (OGS, MP 107, p 67, 1982) | Preproduction reserves. |
| ONT. 383 | RESERVE LAKE<br>Fort Hope Indian Band<br>42 M/12<br>51°33'30" 87°48'00" | Series of Au–bearing qtz veins within sheared qtz–feldspar porphyry. Mnrls present are py, po, cp, Ag and gal. | **1960–63**: prospecting, mag survey, dd, stripping. | Ind: 170,000 at 0.28 oz/t Au to 300' plus additional tonnages to 700' ***1963*** (Zulapa Mng Corp L, 1970 AR) | Shaft sinking was recommended in 1963 but never started. Under 1975 conditions, the property did not warrant total dev. |
| ONT. 384 | NORTON LAKE<br>Wasabi Res L<br>42 M/14<br>51°55' 87°20' | Deposit lies in mafic to intermediate volc and seds in Uchi Belt, flanked by acid intrusions. | **1970**: airborne geoph.<br>**1980**: ground geoph, dd.<br>**1981**: dd 60 holes, 22,923'.<br>**1983**: dd. | Dd–ind: 1,041,130 t at 0.72% Ni, 0.56% Cu to 294' ***1980*** (NM 03/12/81) | Low Pt values. Res to 500', below is open and untested along strike and plunge. |
| ONT. 385 | GREAT LAKES NICKEL<br>Great Lakes Nickel L<br>52 A/4<br>48°04'40" 89°37'25" | Zoned, sill–like mass of gabbro and anorthositic gabbro. Middle zone of N arm of structure is anorthositic olivine gabbro with syngenetic sulphides (pn, po, cp) and disseminated chromium spinel. Lower chill zone gabbro has disseminated sulphide and massive po stringers. | **1952–57**: surface work, dd.<br>**1964–68**: dd, adit.<br>**1970**: feasibility study.<br>**1972–74**: feasibility study, 2,300 ton bulk sample sent to Sweden, mine site preparation started then cancelled, mill equipment put into storage.<br>**1977**: update of feasibility study. | Ind: 45,600,000 at 0.344% Cu, 0.183% Ni plus values in Pt and Pd ***1974*** (Great Lakes Nickel L, 1976 AR) | Fleck Resources option. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 386 | SILVER MOUNTAIN<br>McWilliams<br>Beardmore ML (in 1965)<br>52 A/4<br>48°15'00" 89°52'02" | Acanthite, native Ag in calcite–qtz veins cutting Proterozoic diabase and shales. | **1885–1911**: shafts, 20 stamp mill, more than 770,000 oz Ag prod.<br>**1924–27**: 6,000 tons of calcite material mined.<br>**1947–55**: dd, workings partially dewatered. | Ind: 60,000 at 5.0 oz/t Ag, 12.0% Fsp ***1954***<br>(NM 28/10/54) | In 1949 one estimate was 250,000 at "mineable grade" Ag, Zn, Pb and calcium fluoride. |
| ONT. 387 | CRESWELL<br>Creswell ML (in 1971)<br>52 A/5<br>48°18'18" 89°40'00" | Acanthite, native silver in veins cutting Proterozoic shales. Other mnrls amethyst, barite, fluorite, galena, sphalerite, pyrite, chalcopyrite, pyrrhotite. | **1884–1911**: expl and mining.<br>**1956–57**: sampling.<br>**1968–69**: shaft dewatered, sampling, geol, geochem, dd. | 20' x 20' x 3' at 394.5 oz/t Ag or 40,000 oz Ag<br>***1968 ?***<br>(Ont MP 128, p 106, 1986) |  |
| ONT. 388 | SILVER ISLET<br>Q C Expls L<br>52 A/7<br>48°19'15" 88°48'50" | Ag in qtz–dolomite vein within a strong fault zone crossing a Proterozoic diabase dyke. | **1868–84**: discovery, shaft to 1,160', winze to 1,230', prod of approx 2,850,000 oz Ag.<br>**1919–22**: partially dewatered, sampling, crosscut driven, small prod.<br>**1975–78**: geochem, sampling of dump, some dd.<br>**1982**: mill constructed.<br>**1983–84**: prod.<br>**1985**: metallurgical testing. | Ind: 115,000 at 40 oz/t Ag in dump ***1975***<br>(Ont MP 71, p 44, 1976)<br>***plus*** 300,000 ozs Ag in roof pillar ***1921***<br>(Ont MRC 10, p 74, 1968)<br>***or*** 1,050,000 oz Ag min<br>(NM 18/10/79)<br>***plus*** 750,000 ozs Ag in support pillars and stopes ***1982***<br>(NM 10/02/83) |  |
| ONT. 389 | ANDERSON LAKE<br>Briar Court ML (in 1968)<br>52 A/10<br>48°40'30" 88°45'45" | Most mo occurs as aggregates in or near qtz lenses within a pegmatite. Mo distribution is erratic over the 2,000' length of the pegmatite. | **1918**: trenching.<br>**1938**: stripping, trenching, 25 tons avg 0.49 $MoS_2$ shipped.<br>**1958–60**: stripping, trenching, 18 ddh (2,114').<br>**1966–68**: mapping, trenching, dd. | Ind: 1,346,000 Mo, grade unstated ***1959***<br>(W N Ingham 16/06/59)<br>***in*** Prospectus, Lindsay Expls L, 19/06/59) | Overall grade not available. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 390 | DORION MINE<br>Andowan ML (in 1972)<br>52 A/15<br>48°50'05" 88°40'20" | Gal, sph in qtz and barite breccia filling fault zone between Archean granite and Proterozoic sediments. | **1903**: pitting, shaft to 95', 350 tons of Pb concentrate produced.<br>**1929**: sampling.<br>**1948**: chip and channel sampling. | Max of 35,000 at 10% Pb ***1948***<br>(D H Yardley 18/02/57 ***in*** Prospectus, Andowan ML, 30/03/57) | Zone has been traced for three–quarters of a mile and is 1'–4' wide. Very limited depth to zone. |
| ONT. 391 | LAC LA CROIX<br>Intl Lithium Mng Corp L (in 1976)<br>52 B/5<br>48°21'40" 91°59'50" | A coarse– to very coarse–grained pegmatite dyke cuts Archean metasediments. Constituent mnrls are albite, qtz, spodumene, muscovite and garnet. | **1955–56**: trenching, dd totalling 37,178'. | 1,500,000 at 1.20% $Li_2O$ ***1956***<br>(GSC EGR 21, p 66, 1965) | Intl Lithium's name changed in 1981 to Petro Inc Res L and to Barrick Res Corp in 1983. |
| ONT. 392 | GREEN COAST<br>Wilco Mining Co. Ltd.<br>52 B/9<br>48°38'35" 90°26'02" | Disseminated and massive py, po, cp and sph in silicified Keewatin greenstones. West section about 150' long x 22' wide and 600' deep. | **1929–30**: surface work, dd.<br>**1943, 1948–49**: trenching, SP and mag surveys, 33 ddh.<br>**1953–56**: EM and mag surveys, 24,845' in 33 ddh. | Dd–ind: 200,000 at 1.25% Cu in west section ***1956***<br>(Ont MRC 2, p 46, 1957) |  |
| ONT. 393 | SMITH–PAROZANIN<br>GLE Res L (in 1986)<br>52 B/9<br>48°40' 90°02.1' | Irregular qtz veins in metavolcanics with Zn, Cu, Ag. | **1953–54**: stripping.<br>**1954**: dd.<br>**1955**: EM and mag surveys, dd.<br>**1959**: SP survey, dd.<br>**1960**: dd. | Spec: 7500 at 0.72 and 8,500 at 0.21 oz/t Au in 2 zones ***1981***<br>(OGS OFR 5332, 1981) | Some potential for decline operation. |
| ONT. 394 | SWAMP (MUD) RIVER<br>Noranda Inc<br>52 B/9<br>48°37'55" 90°06'40" | Qtz stringers with py, cp, sph and Au in shear zones within feldspar porphyry. | **1936–40**: discovery, 21 pits, shallow dd.<br>**1944–51**: dd.<br>**1975**: feasibility study, bulk sampling.<br>**1981**: IP, mag, geol surveys, dd.<br>**1982–84**: dd, geoph.<br>**1987**: geochem, dd. | Ind: 687,499 at 0.265 oz/t Au to 500' **or** 471,518 at 0.303 oz/t to 350' ***1947***<br>(NM 17/10/47)<br>or No. 4 zone 998,108 at 0.119 oz/t Au ***1988***<br>(Band–Ore GML, Letter to Shareholders 9/07/88) | Band–Ore GML has 25% interest in the property. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 395 | SNODGRASS<br>Storimin Exploration Ltd.<br>52 B/10<br>48°32'36" 90°42'47" | Gold in veins. | **1944–45**: discovery, tr, dd.<br>**1974**: sampling, geol, geoph, dd.<br>**1979**: dd.<br>**1983–86**: dd.<br>**1987–89**: u/g work, dd, decline ramp. | Poss: 800,000 at 0.20 oz/t Au ***1987***<br>(NM 4/05/87) | Tandem Resources Ltd. 50% interest. |
| ONT. 396 | ELIZABETH MINE<br>Exploration Mimiska Inc.<br>52 B/13<br>48°47'48" 91°43'54" | Au–bearing qtz–carbonate veins along contact of Dashwa Lake granite batholith and Steep Rock Lake metavolcanic belt. | **1900–02**: shafts to 28 m and 72 m, dd.<br>**1911–14**: u/g dev.<br>**1935–36**: dewatering, surface dd, trenching.<br>**1979**: geol, trenching.<br>**1982**: dd.<br>**1986**: dd, shipping, tr, sampling.<br>**1987**: dd, geol, geoph. | Prob & Poss: 125 376 mt at 6.33 g/mt ***1988*** (Ont MP 142, p 93) | Some potential for small scale, narrow open cut operation. Gold from tailings would be recoverable by heap leaching. |
| ONT. 397 | ATIKOKAN IRON<br>Atikokan ML (in 1979)<br>52 B/14<br>48°47'07" 91°16'35" | Mag, py and po within mafic dykes along the Quetico Fault. Mineralized zone occurs in larger iron–bearing zone. | **1882**: discovery.<br>**1887–1906**: surface stripping, tunnelling, dd.<br>**1907–12**: o/p mng, c 96,000 lt iron ore mined.<br>**1966**: sampling programme.<br>**1969–72**: airborne and ground geoph surveys, dd, metallurgical tests by Paulpic GML. | Dd–ind: 12,000,000 lt at 35% Fe, c 0.40% Cu, some Co and Ni ***1972***<br>(NM 26/10/72) | Atikokan sold its mng property c 1979 to private individuals. |
| ONT. 398 | HAMMOND REEF<br>52 B/14<br>48°56'30" 91°26'54" | Qtz lenses in shear zone in trondhjemite. | **1895**: discovery.<br>**1896–98**: trenching, 3 shafts, 10 stamp mill.<br>**1899–1900**: quarry, 60' shaft, closed. | Spec: 1,600,000 at 0.20 oz/t Au to 100' ***1981***<br>(OGS OFR 5332, 1981) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 399 | SAPAWE MINE (ATIKO)<br>Atiko GM Corp<br>52 B/14<br>48°47'00" 91°21'30" | A series of 'en échelon' veins and lenses of Au–bearing qtz in qtz porphyry. | **c 1929**: expl.<br>**1960–66**: dd, shaft, 100 t/d mill.<br>**1964–66**: shaft deepened to 1016', 33,013 tons milled.<br>**1974–79**: mag, mapping, rehabilitated some buildings.<br>**1980**: dewatering shaft.<br>**1982**: mill study. | Prov: 34,181 at 0.31oz/t Au **and** prob: 204,000 at 0.30 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 400 | SAWBILL LAKE<br>J P Manley<br>52 B/14<br>48°57' 91°25.5' | Qtz veins with py, cp in granite. | **1895–97**: 230' shaft, 10 stamp mill.<br>**1897–99**: prod 677 oz Au from 2146 tons milled.<br>**1936–41**: shaft dewatered, dd, mill, minor prod. | Spec: 66,600 at 0.20 oz/t Au and 46,600 at 0.05 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 401 | SUNBEAM MINE<br>52 B/14<br>48°52' 91°18' | Qtz–calcite vein in granite schist. | **1898**: discovery, 71' shaft.<br>**1899–1902**: shaft to 137'.<br>**1904**: minor prod 650 t at 0.42 oz/t Au.<br>**1979**: geol survey.<br>**1982**: dd. | Prob: 4,410 at 0.37 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Nahanni ML optioned 800 acre property surrounding the lease of the Sunbeam Mine in 1979 from Surveymin L. |
| ONT. 402 | TYRRELL LAKE<br>Butte Resources Ltd.<br>52 B/14<br>48°49'42" 91°24'52" | Auriferous qtz vein and stringers between granite and sericite schist. Orebody 700' along strike to 650' depth. | **1878–1902**: discovery, main shaft sunk to 192' with 2 levels and drifting, 2 other shafts 140' and 200', small prod.<br>**1945–46**: surface work, dd.<br>**1961**: dd, stripping, trenching, channel sampling.<br>**1982**: mag, EM, rad and geol surveys.<br>**1988**: dd. | Poss: 75,000 at 0.35 oz/t, 37,500 at 0.40 oz/t **and** 3,000 at 0.30 oz/t Au **1981**<br>(OGSC OFR 5332, 1981)<br>***or*** 100,000 at 0.45 oz/t Au ***1982***<br>(Asamera Inc 1981 AR) | Good prospect for small tonnage and above average grade. Asamera Inc optioned in 1981 and did 1982 work. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 403 | WISA LAKE<br>Norlex ML (in 1967)<br>52 C/8<br>48°25' 92°15' | Several spodumene–bearing dykes cutting Archean metasediments. | **1956**: 5,620' of "A" core dd and 431' of packsack dd. | Ind: 330,000 at 1.15% $Li_2O$ ***1956***<br>(NM 11/08/57) | Still open to east and best values obtained in east; tonnage indicated in several structures. |
| ONT. 404 | FERGUSON<br>Orotek Res Corp (in 1984)<br>52 C/10<br>48°44.4' 92°36.6' | Three qtz veins in a shear zone in qtz porphyry. | Trenching; 146', 107', 110' shafts; sampling. No prod figures available. | Poss: 40,000 at 0.06 oz/t Au (in tailings) and spec: 3,400 at 0.38 oz/t Au (in place) ***1981***<br>(OGS OFR 532, 1981) |  |
| ONT. 405 | FOLEY MINE<br>Royal Gold & Silver Corp (in 1986)<br>52 C/10<br>48°41'45" 92°38'42" | Felsic intrusives enclose auriferous veins. | **1893–1902**: surface cutting, pitting, North shaft to 420' with 5 levels and drifting, 40' pits, 20 stamp mills, small prod, South shaft to 200', u/g dev.<br>**1920–37**: u/g dev incl winze, drifting, crosscutting and dd in North shaft, South shaft dewatered, 2 stamp mills, prod.<br>**1980**: dd. | Ind: 450,000 at 0.45 oz/t Au ***1979***<br>(NM 12/06/80)<br>***or*** poss: 40,000 at 0.50 oz/t Au ***plus*** spec. 40,000 at 0.50 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Resources remained in North shaft after total recovery of 855 oz Au and 149 oz Ag from 5,568 tons milled. |
| ONT. 406 | GOLDEN STAR<br>Cleyo Res Inc<br>52 C/10<br>48°44'50" 92°37'10" | Au–bearing qtz veins found within a felsite dyke that crosscuts metavolcanic rocks. | **1894**: discovery.<br>**1897–1901**: 2 shafts with u/g dev, small prod.<br>**1927–28**: 5 t/d mill increased to 25 t/d.<br>**1934**: mine dewatered and sampled.<br>**1936–42**: intermittent mng and treatment of tailings.<br>**1974**: dewatered workings, u/g expl and dd.<br>**c 1983**: geol, geoph, sampling, dd. | In place: 20,000 at $15/t Au ***plus*** in dump: 35,000 at $9/ton Au ***1942***<br>(FP Surv Ms 1942–43, p 145)<br>***or*** 20,000 at 0.42 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Up to 1941, 10,758 oz of gold and 34 oz of silver were recovered from 19,345 tons of ore milled. Tailings owned by Morningland Ventures Ltd. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 407 | LUCKY COON<br>W J Lind (in 1979)<br>52 C/10<br>48°43'55" 92°37'25" | Auriferous veins cutting felsic intrusives. | **1894**: discovery, 4 shafts.<br>**1899**: small prod.<br>**1937**: dewatered, expl program. | Spec: 4,000 at 1.00 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Data is sparse but nature and size of veins makes property warrant exploration. |
| ONT. 408 | RICHMORE<br>Corporate Oil & Gas L (in 1980)<br>52 C/10<br>48°41'12" 92°40'55" | Veins in qtz porphyry. | **1934**: dd. | 250' x 2.9' at 0.49 oz/t Au **or** 300' x 4.0' at 0.29 oz/t Au ***1980***<br>(Corp Oil & Gas Pros 14/07/80) |  |
| ONT. 409 | SEINE BAY–BAD VERMILION LAKE<br>Titan Titanium Int Inc<br>52 C/10<br>48°39'52" 92°57'03" | Titaniferous magnetite in gabbro–anorthosite sill. Vanadium in ilmenite and magnetite. | **1911**: discovery?<br>**1917–20**: mag survey, dd, sampling.<br>**1956–58**: mag survey, geol, dd.<br>**1984–85**: dd. | Dd–ind: 3,450,000 at unstated grade titanium oxide **or** 1,270,000 at 15%–17% titanium oxide ***1985***<br>(ASEFS 85–21) |  |
| ONT. 410 | GRASSY PORTAGE BAY<br>Nor–Norock Mng CL<br>52 C/11<br>48°42'04" 93°03'45" | Cp and po disseminated through hornblende gabbro sill close to its contact with mafic volcanics. | **1958–59**: discovery, geol and geoph surveys, dd.<br>**1965–71**: dd, mapping.<br>**1972–73**: 200' shaft sunk and 700' drifting. | Ind: 265,230 at 2.08% Cu, (1.3% Cu cut–off) ***1971*** (NM 03/02/72) ***or*** 1,000,000 at 1.5–2.0% Cu<br>(CMH 1985–86, p 306) | The deposit is open along strike and at depth. |
| ONT. 411 | MIRONSKY<br>A Mironsky (in 1970)<br>52 C/11<br>48°42'08" 93°01'40" | Cp, py and po in biotite–feldspar–qtz schist of sedimentary origin. Cp decreases with depth as py and po increase. | **1963**: discovery, 3,030' in 8 ddhs, detail geol map, trenching, geoph survey. | Inf: 300,000 at 0.8% Cu 1963<br>(Ont GR 115, p 59, 1974) | The mineralized body is thought to be 400' long x 36' wide x 300' downdip. |
| ONT. 412 | EMO<br>Long Lac Mnrl Expl L (in 1969)<br>52 C/12<br>48°39'18" 93°56'45" | Local disseminations to massive po, pn, py and cp with minor violarite, sph and mag in norite along the south contact of the intrusion. | **1952–53**: discovery, airborne and ground mag and EM, geochem survey, 47 ddh.<br>**1955–57**: 50,000' dd, bulk samples.<br>**1968–69**: bulk samples, metallurgical tests. | Ind: 3,000,000 Ni–Cu–Co, grade unstated ***plus*** pot: 7,000,000 Ni–Cu–Co, grade unstated ***1956***<br>(NM 25/10/56) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 413 | OLIVE (PRESTON)<br>HSK Minerals Ltd.<br>52 C/15<br>48°46'40" 92°43'30" | Auriferous qtz vein, 1/2–2' wide in qtzite. | **1896–1900**: discovery, 2 ton and 25 ton stamp mill erected, prod.<br>**1935–37**: dewatered and sampled workings, small prod.<br>**1941–42**: No 1 shaft to 251' with 3 levels, No 2 shaft to 60' connected to No 1, 3 other shallow shafts, u/g dev in No 1, prod 3,572 ozs Au in 1942.<br>**1963–64**: dd.<br>**1981–85**: strip, tr, sampling, geoph, geochem, dd.<br>**1986–87**: u/g expl, bulk sampling, dd. | 12,600 at 0.34 oz/t Au ***plus*** 1,100 at 0.31 oz/t Au (broken ore) ***1986*** (HSK Minerals Ltd. 1986 AR) | Mine shut down due to fire which destroyed the mill in 1942.<br>Noront Resources Ltd. can earn 60% interest. |
| ONT. 414 | COMBINED MINE<br>52 E/8<br>49°15'36" 94°00'36" | Four veins in pillow lava with qtz porphyry dikes. | **1903–05**: 101' and 45' shafts.<br>**1904**: 37 t milled at 0.33 oz/t. | Spec: 240,000 at 0.30 oz/t Au in veins to 40' ***1981*** (OGS OFR 5332, 1981) | Good prospect for o/p. |
| ONT. 415 | SILVER BELLE (REGINA)<br>New McManus Red Lake Gold ML (in 1986)<br>52 E/8<br>49°23'24" 94°02'12" | Eight qtz veins occupy shear zone in sediments intruded by qtz diorite. | **1894**: discovery.<br>**1895–1905**: 5 shafts, prod 36,828 at 0.21 oz/t Au and 0.04 oz/t Ag.<br>**1940–41**: milled 3,110 t.<br>**1942**: 5,000 t tailings treated.<br>**1973**: dd. | Poss: 6,000 at 0.41 oz/t Au and 8,000 at 0.15 oz/t Au; spec: 3,600 at 0.57, 4,800 at 0.43 and 11,250 at 0.40 oz/t Au ***1981*** (OGS OFR 5332, 1981) | Sweany Gold Corp optioned 30,000 tons of 0.106 oz/t tailings in 1988. |
| ONT. 416 | BLINDFOLD (GOLDEN GATE MINE)<br>52 E/9<br>49°38'24" 94°16'48" | Qtz veins in altered volcanics. | **1910**: 85' shaft. | Min dimension: 50' x 4' to 100'; spec: 1,600 at 0.89 oz/t Au ***1981*** (OGS OFR 5332, 1981) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 417 | PINE PORTAGE<br>President ML<br>52 E/9<br>49°42'36" 94°21'36" | Qtz veins with VG, py, cp, asp, native Ag, Cu in hornblende schist in mafic volcanics. | **Pre–1900**: mill in place, 100' shaft.<br>**1932**: sampling and shaft dewatered.<br>**1970**: dd.<br>**1981**: sampling, dd.<br>**1983–86**: u/g work, sampling. | Poss: 2,100 at 2.05 oz/t Au (potential orebody 100' x 7' to 35') ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 418 | CEDAR ISLAND<br>(CORNUCOPIA MINE)<br>Kenora Prospectors and Miners<br>52 E/10<br>49°36'00" 94°58'12" | Two qtz veins in greenstone cut by qtz porphyry, contain asp. | **1899**: 869' dd, prod.<br>**1929–36**: 2 shafts 165' incl. and 646' dd, total prod: 4,941 oz Au and 3,884 oz Ag from 17,050 t.<br>**1986–89**: dd. | Prob: 28,000 at 0.50 oz/t Au ***1981***<br>(OGS OFR 5332, 1981)<br>***plus*** 1,400,000 at 0.25 oz/t Au ***1988***<br>(NM 1/04/89) | Probable ore from 1936 longitudinal section. Geol plans and assays are lacking. Also c 15,000 tons at unstated grade available from tailings. Some of the reserves includes material from Mikado mine. |
| ONT. 419 | GOLD MOUNTAIN<br>52 E/10<br>49°33' 94°39' | Irregular qtz stringer stockwork in sheared qtz porphyry close to contact with rhyolite, tuff, felsite. | **1895–99**: trenching, 30' shaft.<br>**1935**: sampling. | Spec: 100,000 at 0.04 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | No information except dump samples. Potential of p area 350' x 30' to 125'. |
| ONT. 420 | GULL ISLAND<br>New Ambrose Res Inc (in 1983)<br>52 E/10<br>49°31'12" 94°30'36" | Qtz veins assoc with qtz feldspar porphyry intruding schistose basalt/tuff. | **1898**: 40' shaft and adit.<br>**1937**: 3,509' dd.<br>**1965**: 1,206' dd.<br>**1974**: 1,762' dd. | Spec: 2,600 at 0.71 oz/t Au (in 160' x 5' to 40') ***1981***<br>(OGS OFR 5332, 1981) | Vein No 3; mineable by o/p to 40'. |
| ONT. 421 | HOPKINS–HEINZMAN<br>52 E/10<br>49°34'12" 94°59'24" | Two qtz veins in granite porphyry cutting metavolcanics, with cp, asp, sph, po and gnt. | Test pits and 473' dd. | Spec: 11,000 at 0.23 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Nickel and zinc assays reported. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 422 | KENRICIA MINE<br>Aumac Expls L<br>(in 1974)<br>52 E/10<br>49°43'12" 94°40'12" | Two qtz veins in agglomerate and basalt flows intruded by qtz porphyry dykes, with py, cp and gnt. | **1935**: trenching, 530' shaft.<br>**1939–40**: dd, prod 2,533 oz Au and 521 oz Ag from 22,344 t. | ***(i) Vein 1***: 10,900 poss at 0.68 oz/t Au<br>***(ii) Vein 3***: 28,125 poss at 0.15 oz/t Au<br>***1981***<br>(OGS OFR 5332, 1981) | Estimates are based on assumption that ore grades persist in depth. |
| ONT. 423 | MIKADO MINE<br>Kenora Prospectors and Miners<br>52 E/10<br>49°34'48" 94°57'36" | Four qtz veins containing VG with py, cp, mo, bi in qtz feldspar porphyry intruding basalt and tuff schist. | **1896–1902**: prod, 4 shafts.<br>**1910–11**: prod, dd.<br>**1932**: total prod 1896–1932: 28,335 oz Au and 41 oz Ag from 57,813 t.<br>**1933–34**: 2,760' u/g dd.<br>**1986–89**: dd. | ***North Lens***: 5,200 poss at 0.56 oz/t Au<br>***South Lens***: 6,100 poss at 0.69 oz/t Au<br>***Tailings***: 6,400 spec at 0.09 oz/t Au<br>***1981***<br>(OGS OFR 5332, 1981) | Tailings lie offshore and are amenable to heap leaching. Bond Gold option. Reserves increased in 1989 together with Cedar Island. |
| ONT. 424 | A–D (PURDEX)<br>Consolidated Jalna Resources Ltd.<br>52 E/11<br>49°42'52" 95°04'42" | Au, py, po and cp in qtz veins within gash fractures in basic lavas and qtz feldspar porphyry. Four zones within 400'. | **1952–58**: staked, geol mapped, trenching, dd.<br>**1972**: dd.<br>**1980–81**: geoph, geol, tr, sampling.<br>**1988**: dd. | Dd–ind: 70,000 at 0.31 oz/t Au ***1988 ?***<br>(CMH 1988–89, p 124) |  |
| ONT. 425 | CAMERON ISLAND<br>Cons Professor ML<br>52 E/11<br>49°34'05" 95°02'33" | Gold–bearing qtz veins cut fine grained Keewatin greenstones and coarse amphibolites. The mineralization, high in asp, occurs partially in talc schist. | **1887–1900**: discovery, stripping, trenching, shaft sinking, u/g work, 18 ton mill test.<br>**1928–29**: dd.<br>**1934–36**: dd, u/g dev, shipment of 1,190 tons ore.<br>**1950–51**: dd, u/g dev.<br>**1965**: dd.<br>**1973–74**: dewatered shaft, bulk sample, dd, engineering studies.<br>**1980**: feasibility study.<br>**1981–89**: dd, discovery of East zone, u/g work via ramp, sampling. | Geological mineral reserves: 2,000,000 at 0.35 oz/t Au ***1988***<br>(Consolidated Professor ML 1988 AR) | Price of gold greater than $400.00 (US) per oz is needed for operation. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| ONT. 426 | ELECTRUM LAKE–CONTACT ZONE<br>Calnor Res L<br>(in 1988)<br>52 E/11<br>49°42'54" 95°06'14" | Mineralized qtz–carbonate-epidote veins in basaltic lavas and qtz–feldspar porphyry. Au, py, po and cp throughout volcanics and intrusives concentrated in shears. | **1953–61**: dd, trenching, mag survey.<br>**1981, 1983, 1986**: geol, geochem, geoph, dd.<br>**1987–88**: tr, dd. | ***(i) Zone A***: 200' x 5' at 0.34 oz/t Au, 0.14% Cu to 150'<br>***(ii) Zone B***: 150' x 3' at 0.27 oz/t Au, 1% Cu to 200'<br>***(iii) Zone C***: 150' x 5' at 0.32 oz/t Au, 0.94% Cu to 100'<br>***1961 ?***<br>(Ont GR 41, 1965, p 41) |  |
| ONT. 427 | ELECTRUM LAKE–FAULT ZONE<br>Calnor Res L<br>(IN 1988)<br>52 E/11<br>49°42'50" 95°06'40" | Au, py, po and cp in shear zones within highly altered porphyry. | **1953–61**: dd, mag survey.<br>**1981, 1983, 1986**: geol, geochem, geoph, dd.<br>**1987–88**: tr, dd. | ***(i) P zone***: 100' x 11' at 0.40 oz/t Au to 100'<br>***(ii) W zone***: 200' x 7' at 0.23 oz/t Au to 65'<br>***1961 ?***<br>***or*** 100,000 at 0.33 oz/t Au in several zones ***1987***<br>(Laramide Resources 1987 AR) |  |
| ONT. 428 | HIGH LAKE PROSPECT<br>Eco Expl CL<br>(in 1981)<br>52 E/11<br>49°42'10" 95°06'10" | Three shear zones mineralized with qtz and some mo are enclosed within qtz porphyry. Some Au is also present. | **1937–42**: trenching, 21 ddh. totalling 3,688'.<br>**1959–61**: more than 20,000' of dd.<br>**1971**: geochem.<br>**1980**: shaft sinking to 735'.<br>**1981**: bulk sampling. | Ind: 200,000 at 0.63% $MoS_2$ **plus** inf: 550,000 to 800' ***1962***<br>(NM 11/11/65) | Construction of mill (200 t/d) completed late 1981. Mill test 8,000 t run June and July 1981. |
| ONT. 429 | HIGH LAKE–PORPHYRY ZONE<br>Steerola Expls L<br>(in 1987)<br>52 E/11<br>49°42'32" 95°06'21" | Cp, py, mo and tourmaline occur in qtz veins within porphyritic granite. The cp and py are disseminated throughout but also concentrated in weak zones. | **1952**: trenching, bulk sample.<br>**1956–58**: 10 ddh.<br>**1963**: dd. | 2,000' x 250' at c 0.25–0.50% Cu ***1963***<br>(Ont GR 41, p 48, 1965) | The zone was not delimited. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 430 | SCRAMBLE MINE<br>Madeleine Mines Ltd.<br>52 E/16<br>49°47' 94°23' | Gold in qtz veins in shear zones in volcanic rock. | **1894–98**: discovery, shaft 60'.<br>**1910–14**: shaft to 225', u/g expl.<br>**1986–88**: dd, decline, u/g expl. | 1,200' to 1,500' x 12' at 0.15 oz/t Au ***1986*** (Madeleine ML, 1986 AR) | Partnership with Boise Cascade Canada. |
| ONT. 431 | THRASHER (P–218)<br>52 E/16<br>49°45'36" 94°25'12" | Qtz stringers and dissem sulphides in sheared meta-volcanics. | **1898**: trenching, 50' shaft.<br>**19 ?**: 1,109' dd. | Spec: 4,500 at 0.16 oz/t Au in 160' x 10' to 40' (OGS OFR 5332, 1981) |  |
| ONT. 432 | FURLONGE LAKE<br>Drummond ML<br>(in 1918)<br>52 F/3<br>49°05'30" 93°23'15" | Pyritic replacement masses (of lenticular form) occur in greenstones near a granite porphyry stock. | **1914–18**: surface expl. | 280,156 at c 40% S after cobbing ***1918*** (Drummond ML 04/06/18, written commun) | Estimated 'ore in sight' was 373,500 tons in 4 lenses. |
| ONT. 433 | GATES LAKE<br>52 F/3<br>49°08.3' 93°10.2' | Au in mineralized shear zones with asp and Sb. | **1940–42**: trenching. | Spec: 37,500 at 0.15 oz/t Au in zone 300' x 10' to 150' ***1981*** (OGS OFR 5332, 1981) |  |
| ONT. 434 | KONIGSON<br>52 F/3<br>49°08.3' 93°21.6' | Qtz stringers, Au associated with py, cp. | **1933–34**: trenching, 28' shaft.<br>**1945**: 1,122' dd. | Spec: 5,600 at 0.40 oz/t Au in zone 460' x 6' to 25' ***1981*** (OGS OFR 5332, 1981) | Adjacent Straw Lake Beach vein may dip into this property below 700'. |
| ONT. 435 | STRAW LAKE BEACH MINE<br>Havelock Energy & Res Inc<br>52 F/3<br>49°08' 93°21.5' | Qtz vein in shear zone in acidic lava and agglomerate. | **1933–34**: stripping, trenching, pits.<br>**1938–41**: shaft, 3,579' dd, prod 11,568 oz Au and 1,049 oz Ag from 33,662 tons milled.<br>**1976**: mapping, dd.<br>**1983**: geochem, geoph, geol, tr, sampling. | Prob: 32,000 at 0.20, poss: 32,000 at 0.20;oz/t Au; 30,000 at 0.15 (dump), spec: 48,000 at 0.20 oz/t Au ***1981*** (OGS OFR 5332, 1981) | Excellent prospect for expl and dev. Tailings may contain unstated tonnage at 0.05 oz/t Au. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 436 | MARTIN, FM<br>52 F/4<br>49°12'36" 93°44'24" | Mineralized shear zone containing Au, py and malachite in sericite schist. |  | Spec: 14,000 at 0.15 oz/t Au in zone 150' x 15' to 75' ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 437 | BAG LAKE<br>52 F/5<br>49°19'48" 93°58'12" | Au–Ag bearing sulphides in 4–8' shear zone in intensely altered metabasalt with qtz porphyry dykes. | **1961**: 1,647' dd, stripping. | Spec: 22,500 at 0.25 oz/t Au in zone 300' x 6' to 150' ***1981***<br>(OGS OFR 5332, 1981) | May be mineable by decline. |
| ONT. 438 | CAMERON LAKE<br>Nuinsco Res L<br>52 F/5<br>49°17'24" 93°43'12" | Au, some of it visible, occurs within Archean mafic to ultramafic igneous rocks. | **c 1960**: Au discovery and 42 ddh totalling 6,692'.<br>**1972–74**: 16 ddh totalling 4,685'.<br>**1981–86**: dd, stripping, sampling.<br>**1987–89**: decline ramp, u/g expl, dd, metallurgical tests. | Mineable reserves: 1,310,155 at 0.164 oz/t Au (20% dilution) ***1988***<br>(Nuinsco Res L, 1988 AR) |  |
| ONT. 439 | CASWELL–WILLIAMS<br>Dubenski GML<br>52 F/5<br>49°19'48" 93°50'24" | Mineralized qtz veins in interbanded felsic and intermediate volcanics. | **1901**: discovery.<br>**1902**: 2 shafts, 60 t/d mill installed.<br>**1938**: dd.<br>**1946**: 3 compartment shaft to 140'.<br>**1969**: mag and EM surveys.<br>**1980**: dd, feasibility study.<br>**1985–86**: dd. | Prob: 13,750 at 0.21 and 25,300 at 0.28 oz/t Au; poss: 20,250 at 0.28 oz/t Au; spec: 45,500 at 0.28 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 440 | DOGPAW LAKE<br>Cdn Arrow ML<br>52 F/5<br>49°19'55" 93°52'25" | Py containing gold in silicified zones in sheared mafic and intermediate metavolcanics. | **1959–62**: 116 ddh totalling 18,373'. | Ind: 96,650 at 0.43 oz/t Au ***1961***<br>(NM 04/05/61) |  |
| ONT. 441 | FLINT LAKE<br>Gunnex L (in 1969)<br>52 F/5<br>49°20.4' 93°49.2' | Qtz carbonate veins in fault at contact of metavolcanics and pyroclastics. | **1901–02**: 2 shafts, adit.<br>**1931**: trenching.<br>**1938**: dd.<br>**1947**: deepened shaft.<br>**1969**: EM, mag survey. | Spec: 15,750 at 0.08 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 442 | FROBISHER<br>52 F/5<br>49°20.4' 93°56.4' | Qtz veins and lenses associated with qtz porphyry dykes. | **1942**: staked.<br>**1944**: shallow dd. | Prob: 3,500 at 0.27 oz/t Au in 1,300' zone of discontinuous qtz lenses ***1981***<br>(OGS OFR 5332, 1981) | Drilling gave high but erratic values. Gold is exclusively in qtz (free milling). |
| ONT. 443 | KENBRIDGE (POPULUS LAKE)<br>Kenbridge Nickel ML<br>52 F/5<br>49°28'59" 93°38'06" | Sulphide mnrls occur as blebs in amphibolite and as massive fracture fillings in a zone between two vertical fault zones in an almost vertically–plunging mafic breccia plug. Mnrls incl po, pn, cp and py. | **1936**: staking, trenching.<br>**1937**: Coniagas option – dd.<br>**1948–49**: Inco option – staking, geol and mag surveys, dd.<br>**1951**: property acquired by Falconbridge Nickel ML – more geol and mag surveys, dd.<br>**1955–57**: shaft to 2,042',, 13 levels, surface and u/g dd, lateral work on two levels, mill test sampling. | Ind: 3,271,390 at 1.06% Ni, 0.54% Cu ***1957***<br>(Ont GR 111, p 44, 1973) | Idle since 1957. Problems with talc in the ore which hinders the production of a "clean" Ni–Cu concentrate. |
| ONT. 444 | MARTIN–KENTY<br>52 F/5<br>49°19.8' 93°52.2' | Six qtz veinlets in replaced diorite with py and minor cp. | **1900–01**: minor trenching.<br>**1944**: 9,300' dd. | Spec: 46,500 and 21,000 at 0.15 oz/t Au in 2 zones, 200' x 8' and 180' x 4' both to 350' ***1981***<br>(OGS OFR 5332, 1981) | Dilution could be 15–20%. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 445 | MAYBRUN–ATIKWA LAKE<br>Cons Maybrun ML (in 1985) leased to Sheridan Geophysics L<br>52 F/5<br>49°25'15" 93°39'00" | Cp, py and po mineralization localized in pillow selvedges and along fractures in fine-grained basalt. Additional zone of qtz carbonate alteration and stringers in feldspar porphyry. | **1951–53**: discovery, surface expl, EM and SP surveys, dd.<br>**1955–58**: shaft, u/g lateral work and raising, ore est.<br>**1965–66**: expl; geoph survey, dd, potential reassessment.<br>**1968–74**: dd, o/p prep, mill, prod Aug 73 to Dec 74. | (i) ***Ross***: poss 179,000 and spec 146,000 at 0.20 oz/t Au and 1.00% Cu<br>(ii) ***Bay***: poss 73,500 and spec 73,500 at 0.18 oz/t Au and 0.50% Cu<br>(ii) ***Pot Hole***: poss 28,500 and spec 28,500 at 0.14 oz/t Au and 1.41% Cu<br>(iv) ***B Zone***: prob 1,000,000 poss 312,500 and spec 213,500 at 0.03 oz/t Au and 1.12% Cu<br>***1981***<br>(OGS OFR 5332, 1981) | Mineable by o/p to 150', then u/g. |
| ONT. 446 | MILREE SYNDICATE<br>52 F/5<br>49°15' 93°49.8' | Six qtz veins in transverse fractures in diorite. | **1944**: staked.<br>**1945**: dd, trenching. | Spec: 32,500 at 0.12 oz/t Au to 150' ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 447 | MONTE CRISTO<br>Nuinsco Res L<br>52 F/5<br>49°18.8' 93°33.7' | Discontinuous qtz lenses in chlorite schist. | **1900**: trenching, sampling.<br>**1931**: sampling.<br>**1937**: dd.<br>**1982–87**: dd. | Spec: 100,000 at 0.15 oz/t Au in zone 400' x 15' to 200' ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 448 | SEWELL<br>Cymbal Expls Inc<br>52 F/5<br>49°20.4' 93°51.6' | VG with py in shear zones on the N side of a qtz porphyry dyke. | **1944**: trenching.<br>**1961**: 1,282' dd.<br>**1979**: mag, EM.<br>**1980**: str, tr, sampling, dd. | Poss: 40,000 at 0.25 oz/t Au and 12,000 at 0.07 oz/t Au, in 2 zones ***1981***<br>(OGS OFR 5332, 1981) | Zone 2 is poss mineable by o/p. 100' x 40' x 40'. |
| ONT. 449 | SYLVANITE (JESSIE LAKE)<br>Bigstone Mnrls L<br>52 F/5<br>49°18' 93°56.4' | Qtz veins in shear zone in carbonatized metavolcanics. | **1943**: 651' dd, 2 adits.<br>**1944**: 1,306' dd.<br>**1944–46**: prospected.<br>**1984–85**: geol, geoph, dd. | Prob: 50,000 at 0.10 oz/t Au in 2 zones ***1981***<br>(OGS OFR 5332, 1981) | Amenable to heap leaching and perhaps mineable by o/p to 100'. Property includes old Gold Sun prospect. Optioned by Inco Ltd. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 450 | VICTOR ISLAND<br>Nuinsco Resources Ltd.<br>52 F/5<br>49°18'28" 93°34'25" | Gold in silicification or veining zone. | **1899**: discovery, pit.<br>**1937**: dd.<br>**1982**: dd.<br>**1985**: basal till sampling, dd.<br>**1987**: dd. | Ind: 300,000 at 0.12 oz/t Au ***1985***<br>(Ont MP 128, p 16) |  |
| ONT. 451 | VIRGINIA<br>Fort Knox Gold Res Inc<br>52 F/5<br>49°25.1' 93°42.4' | Qtz veins in felsic schist with qtz porphyry dykes. | **1898**: discovery, shaft.<br>**1903**: dev work, abandoned.<br>**1985**: dd. | Spec: 830,000 at 0.08 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 452 | WAMPUM LAKE<br>52 F/5<br>49°17'10" 93°30'30" | Nine qtz veins in 2 parallel zones in schistose metavolcanics. | **1940–41**: dd, 200' shaft, trenching.<br>**1968**: mag and EM surveys. | Poss: 15,000 at 0.08 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Surface dump may be treatable by crushing and heap leaching. |
| ONT. 453 | WENSLEY<br>52 F/5<br>49°15' 93°49.8' | Qtz veins in diorite and gabbro intrusive into bedded tuffs with later qtz porphyry dykes. | **1944**: trenching.<br>**1946**: 6,000' dd. | (i) ***Vein 3***: 320,000 spec at 0.20 oz/t Au in 1600' x 6' to 400'.<br>(ii) ***Vein 4***: 16,200 spec at 0.15 oz/t Au in 360' x 6' to 90'.<br>(iii) ***Vein 5***: 61,250 spec at 0.20 oz/t Au in 700' x 6' to 175'<br>***1981***<br>(OGS OFR 5332, 1981) | Prospect for further exploration and development. |
| ONT. 454 | ERRINGTON CLAIMS<br>J Errington (in 1937)<br>52 F/6<br>49°18'36" 93°28'48" | Auriferous qtz veins either fill tension fractures in acid dykes or occupy a dyke/basalt contact. | **1937**: trenching, dd.<br>**1947**: 12 ddh, aggregating 5,000'. | Ind: 24,000 at 0.73 oz/t Au ***1945***<br>(Ont MDC 16, p 16, 1976)<br>or poss: 224,000 at 0.24 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Ind zone is 450' x 3.5' x 240'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 455 | PETRIE MINE<br>Black Cliff Mines Ltd.<br>52 F/6<br>49°18'18" 93°04'00" | Gold in quartz vein. | **1899**: shaft, discovery.<br>**1900**: sampling. | Poss: 3,750 at 0.21 oz/t Au to 40';<br>spec: 7,750 at 0.21 oz/t Au to 125'<br>***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 456 | BEEHIVE<br>Noxe Resource Corp (in 1987)<br>52 F/7<br>49°16.6' 92°58.0' | Two qtz veins in shear zone in qtz monzonite. | **1897–98**: trenching.<br>**1943**: sampling, dd.<br>**1983, 1984**: dd. | Prob: 126,000 at 0.16; oz/t Au and poss: 7,500 at 0.35 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Mineable by decline. |
| ONT. 457 | BIG MASTER<br>Kenwest ML<br>52 F/7<br>49°26'15" 92°41'35" | Auriferous qtz veins in shear zones within volcanics. Ore veins 2,400'–5,000' long and 3'–9' wide. | **1902–06**: 3 shafts, u/g drifting and crosscutting, prod.<br>**1916**: workings dewatered.<br>**1935–38**: dd, No 1 shaft deepened to 350', u/g drifting and dd, trenching.<br>**1940–43**: no 1 shaft to 638', u/g dev, mill erected, dd, 14,470 tons hoisted.<br>**1987**: sampling, dd. | ind: 600,000 at 0.22 oz/t Au ***1987***<br>(CMH 1988–89, p 92)<br>plus<br>Prov & prob: 123,000 at 0.3 oz/t Au ***1987***<br>(CMH 1988-89, p 92) | CanAmerica Precious Metals Inc. and Co-maxx Energy Gp. Inc. option. |
| ONT. 458 | CANAMERICA E<br>Co-maxx Energy Group Inc.<br>52 F/7<br>49°26' 92°43' | Gold in qtz–carb veins in sheared feldspar porphyry dyke. | **1985–86**: sampling.<br>**1986–87**: dd. | Dd–ind & inf: 143,685 at 0.167 oz/t Au ***or 1987***<br>Dd–ind & inf: 529,650 at 0.103 oz/t Au ***1987***<br>(Ont MP 142, p 21) | Optioned to Can America Precious Metals Inc. |
| ONT. 459 | DETOLA PROSPECT<br>52 F/7<br>49°26.6' 92°40.7' | Seven qtz/calcite veins in andesitic volcanics with porphyry diabase, chloritic schist and graphite. | **1906**: stripping and trenching.<br>**1910**: shaft to 255'.<br>**1936**: dewatered. | Spec: 10,000 at 0.09 **and** 5,000 at 0.09 oz/t Au in dump<br>(OGS OFR 5332, 1981) |  |
| ONT. 460 | DRYDEN–RED LAKE<br>52 F/7<br>49°19.5' 92°55' | Qtz veins in shear zone in andesite and chloritic schist. | **Pre–1933**: discovery, sampling, trenching. | Spec: 30,000 at 0.20 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Sparse data but indications of fair grade. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 461 | ELORA (JUBILEE)<br>52 F/7<br>49°26.3' 92°42' | Qtz veins, lenses and stringers in schisted shear zone at contact of felsic and mafic metavolcanics. | **1897–98**: trenches, 75' shaft.<br>**1935–38**: shaft to 175', 4,275' dd, prod 1,370 oz Au and 296 oz Ag from 13,766 tons. | Prob: 13,500 at 0.18 oz/t Au; poss: 215,000 at 0.13 oz/t Au; spec: 5,000 (in dump) at 0.10 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Former production is believed to be from surface open cut. |
| ONT. 462 | LAURENTIAN MINE<br>52 F/7<br>49°26.6' 92°41.8' | Four qtz veins and qtz bands in shear zone: continuation of the Jubilee vein. | **1903–09**: 400' shaft, prod 8,143 oz Au from 19,950 t.<br>**1911**: little ore milled.<br>**1916, 1938**: dewatered and sampled. | Prob: 2,650 at 0.25 pz/t Au; poss: 48,000 at 0.25 oz/t Au; spec: 20,000 at 0.10 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Excellent prospect for dd and u/g exploration with considerable tonnage potential. |
| ONT. 463 | MANITOU ISLAND<br>Noxe Resources Corp (in 1987)<br>52 F/7<br>49°16'10" 92°57'58" | Sulphide zone of py, cp and associated Au with qtz monzonite. No Au found associated with qtz veins. | **1897, 1928**: expl, discovery.<br>**1934–36**: trenching, dd.<br>**1943–45**: dd.<br>**1983 1984**: dd. | Prob: 190,000 at 0.21 oz/t Au; poss: 341,500 at 0.21 oz/t Au; 90,000 at 0.25 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | |
| ONT. 464 | SELBY LAKE<br>Kenwest ML<br>52 F/7<br>49°25'36" 92°42'54" | Qtz lenses in shears within greenstones. | **1936–37**: surface work, dd, mng plant erected, shaft sunk to 250', u/g drifting.<br>**1986–87**: dd, tr, sampling. | Poss: 22,500 at 0.37 oz/t Au; spec: 18,000 at 0.37 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | |
| ONT. 465 | WASHEIBEMAGA LAKE<br>Osisko Lake ML (in 1978)<br>52 F/7<br>49°23'30 [illegible]2°33'06" | Au in qtz stringers and sulphides. | **1939**: surface work, dd.<br>**1973–75**: mapping, soil sampling, mag and EM surveys. | Poss: 52,250 at 0.37 oz/t Au plus same in spec category ***1981***<br>(OGS OFR 5332, 1981) | About 1978, Pelham GML held a 20% interest in this property. |
| ONT. 466 | PIDGEON–DYMENT<br>Maverick Ms & Oils (in 1967)<br>52 F/9<br>49°33' 92°06.6' | Qtz veins in shear zone at contact of hornblende diorite and metavolcanics. Mineralized zone contains Au with po and cp (potentially large tonage of low-grade Ni–Cu) | **1966**: trenching.<br>**1967**: dd. | Spec: 83,000 at 0.06 oz/t Au to 200' ***1981***<br>(OGS OFR 5332, 1981) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 467 | PIDGEON–MEGLUND TWP<br>Ventures L (in 1963)<br>52 F/9<br>49°34.2′ 92°19.2′ | Two qtz lenses in qtz carbonate zone in sheared chlorite schist. | **1959**: dd, trenching. | Spec: 60,000 at 0.20 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 468 | SAKOOSE MINE<br>Venturex Resources Ltd<br>52 F/9<br>49°31′36″ 92°20′18″ | Auriferous qtz veins in silicified andesitic lavas. | **1898–1902**: stripping, 3 shafts, stoping, prod of 8,828 tons at 0.41 oz/t Au.<br>**1931**: property examination, dd.<br>**1944–47**: u/g drifting and dd, surface dd, prod.<br>**1982**: dev.<br>**1987-88**: geol, dd, u/g work, tr, stripping. | Prob: 6,000 at 0.28 oz/t Au, 0.24 oz/t Ag; poss: 50,000 at 0.30 oz/t Au, 0.26 oz/t Ag; spec: 29,000 at 0.31 oz/t, 0.26 o/t Ag; all to 500′ ***1981***<br>(OGS OFR 5332, 1981) | Production post 1934 came from mine dump. Heap leach pad set up to process ore from main vein, in 1982. |
| ONT. 469 | TABOR LAKE<br>R V Ekstrom (in 1979)<br>52 F/9<br>49°32′12″ 92°24′30″ | Auriferous qtz veins within a qtz porphyry body. | **1897**: discovery, 75′ shaft, some trenching.<br>**1934–38**: deepened shaft, u/g dev on 3 levels, bulk sampling, dd, prod.<br>**1957–61**: workings rehabilitated, dd, 15 ton mill erected.<br>**1980–81**: dd, dewatered. | Poss: 14,000 at 0.41 oz/t Au and spec: 3,000 at 0.41 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Sulpetro Mnrl L did 1980–81 work. |
| ONT. 470 | BONANZA MINE<br>Moss Resources Ltd<br>52 F/10<br>49°43.2′ 92°52.3′ | Discontinuous qtz lenses in mafic volcanics and rhyolite tuff intruded by porphyry dykes. | **1913–18**: trenches and pits.<br>**1919–22**: 333′ shaft.<br>**1920–23**: prod 246 oz Au and 83 oz Ag from 1,206 t milled.<br>**1987**: dd. | Poss: 22,500 at 0.20 oz/t Au; spec: 11,250 at 0.20 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | May be liable to wallrock dilution (10–15%). |
| ONT. 471 | GORDON CLAIM<br>52 F/10<br>49°43.6′ 92°54.7′ | Au associated with py in qtz vein in altered diabase. | **1940**: 20′ and 85′ shafts, 500′ dd, mill test of 80 t.<br>**1987**: dd Van Horne Gold Expl. | Spec: 8,000 at 0.42 oz/t Au, in zone 600′ x 4′ to 40′ ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 472 | KIDD NO 1<br>Power Explorations Inc<br>52 F/10 | Gold in qtz and silicified Archean volcanic rocks | **1987**: dd, discovery.<br>**1988**: dd, geoph. | 100,000 at 0.20 oz/t Au ***1987***<br>(Power Explorations Inc 1988 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 473 | LITTLE JUMBO<br>52 F/10<br>49°43.2' 92°54.6' | Qtz stringers associated with 18' wide dyke of schist in agglomerate. | **1897**: 55' shaft, sampling. | Spec: 46,800 at 0.50 oz/t Au in zone 625' x 18' to 50' ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 474 | ELDORADO<br>52 F/11<br>49°38.3' 93°20.1' | Siliceous shear zone containing blue qtz blebs in granite. | **1900–04**: 140' shaft, 83 t mill test. | Poss: 6,750 at 0.47 oz/t Au and spec: 40,000 at 0.25 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 475 | GOLDEN EAGLE<br>52 F/11<br>49°39.8' 93°18.2' | The mine lies in hornblende biotite granite. | **1900**: discovery.<br>**1903–06**: 75' shaft, mill test on 29 t. | Spec: 5,000 at 0.25 oz/t Au in zone 160' x 5.5' to 70' ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 476 | MAGDALENA<br>52 F/11<br>49°39.3' 93°11' | Mineralized shear zone in pillow lavas at contact with qtz porphyry dykes. | **1948–51**: geophs, 4,495' dd. | 375,000 poss at 0.30 oz/t Au, 3.0 oz/t Ag and 2.5% Cu ***1981***<br>(OGS OFR 5332, 1981) | Potential for large scale, low–grade o/p operation. |
| ONT. 477 | MERIDAN BAY<br>52 F/11<br>49°36'10" 93°12'10" | Vein in shear in diabase with Au, py, cp, Ni, Cu and Ag. | **1910**: stripping; trenching.<br>**1956**: sampling. | Spec: 10,000 at 0.30 oz/t Au, 3.0 oz/t Ag and 2.5% Cu ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 478 | W W SMITH<br>Birch Bay GML<br>(in 1939)<br>52 F/11<br>49°39'48" 93°12'18" | Mineralized qtz veinlets within intrusives. | **1935–36**: trenching, dd. | 135' x 17" at $26/t Au and 56' x 2' at $22/t Au ***1935***<br>(NM 07/11/35) | The resource estimate was based on surface work only. |
| ONT. 479 | RICHARD LAKE<br>First Standard Mining Ltd<br>52 F/13<br>49°50'52" 93°55'00" | Uranium mineralization with mag–bearing pegmatite dykes intruding gneissic metavolcanics. Ore mnrls incl mag, hematite, uranite, uranothorite, allanite and betauranotil. | **1954–56**: staked, stripped, trenched, mag survey, dd, 2 adits and u/g lateral work.<br>**1976–79**: remapped u/g workings, ground mag and scint survey, dd, prospecting, trenching and sampling. | Poss: 4,000,000 $U_3O_8$ at 'economic grade' across 60' ***1976***<br>(A S Bayne 20/07/78 for Golden Standard ML *in* TSE SMF 10/10/78) | The 1976 figure was derived from recalculation of 1956 data ind 650,000 at 0.10% $U_3O_8$ across 10'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 480 | LUN–ECHO (MAVIS LAKE)<br>Lun–Echo GML<br>(in 1961)<br>52 F/15<br>49°48′45″ 92°39′25″ | Green and white spodumene occur in a pegmatite dyke which cuts Brownridge volcanics. Some columbite and tantalite are also present. | **1956–57**: a series of shallow ddhs. | 500,000 at 1.0% $LiO_2$ ***1956***<br>(G Darling 24/03/59 ***in*** Prospectus, Lun–Echo GML, 09/04/59) | Depth possibilities not fully examined; a parallel zone of pegmatite dykes 1,000′ S was not investigated. |
| ONT. 481 | ALTO–GARDNER<br>52 F/16<br>49°46.2′ 92°19.8′ | Qtz veins, lenses and stringers in shear zone associated with qtz porphyry intrusive at contact with greenstone schist. | **1937–41**: trenching, 382′ dd.<br>**1946**: 125 t milled, prod 10.14 oz Au and 2 oz Ag. | Poss: 24,375 at 0.20 and 11,600 at 0.18 oz/t Au; spec: 48,750 at 0.15 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Spec material is between 100′ and 300′. |
| ONT. 482 | CALDER-BOUSQUET<br>Mistango Consolidated Res L<br>52 F/16<br>49°50.4′ 92°27′ | Numerous mineralized qtz feldspar porphyry dikes cutting volcanics. | **1950**: 1,101′ dd.<br>**1987**: dd. | Spec: 41,500 at 0.15 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | O/p potential. |
| ONT. 483 | CONECHO<br>Rio Algom L<br>(in 1979)<br>52 F/16<br>49°52.9′ 92°22.8′ | Qtz filled fractures in metavolcanics on both sides of granodiorite dyke (sill ?). | **1946**: discovery dd, 725′ shaft.<br>dd, 725′ shaft.<br>**1951**: total 14,000′ dd. | Spec: 41,500 at 0.15 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Property is adjacent to and connected u/g at 200′ level to Windward and Goldlund properties. |
| ONT. 484 | EAGLELUND<br>Eaglelund GML<br>(in 1963)<br>52 F/16<br>49°51.1′ 92°11.6′ | Mineralized fracture zones in granodiorite sill. | **1946–47**: stripping, trenching, mag survey.<br>**1950**: 2,300′ dd. | Spec: 266,000 at 0.20 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 485 | GOLDLUND<br>Camreco Inc<br>52 F/16<br>49°54′ 92°21′ | Gold in qtz veins in granodiorite dykes. Main granodiorite dyke 4,000′ long, 30′–300′ wide. Metallic mnrls include up to 20% by weight magnetite, ilmenite, altaite, pertzite and po. | **1941, 1942, 1945**: discovery, dd, tr, stripping.<br>**1949–52**: shaft 825′, 4 levels, u/g work, dd.<br>**1972–74**: sampling, u/g work, dd.<br>**1976**: dd, geoph.<br>**1978, 1979**: u/g work.<br>**1982–85**: prod.<br>**1988**: geoph, dd. | Prov & prob: 781,000 at 0.14 oz/t Au ***1988***<br>(Camreco Inc, 1988 AR) | Mill available for custom ore. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 486 | LUN–ECHO<br>Lun–Echo GML<br>(in 1969)<br>52 F/16<br>49•54.6′ 92•16.8′ | Mineralized granodiorite sill in metavolcanics. | **1945**: discovery.<br>**1946**: stripping, trenching.<br>**1947**: mag survey.<br>**1951**: 8,337′ dd. | Spec: 116,500 at 0.20 oz/t Au and 175,000 at 0.15 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) | Lun–Echo sold its property in 1969. In 1979, property was divided into four separate parts/ ownership. |
| ONT. 487 | NEW KELORE<br>New Kelore ML<br>(in 1964)<br>52 F/16<br>49•56′30″ 92•07′15″ | Qtz stringers in schist zone in or near qtz porphyry intrusions and metasediments. | **1901**: 110′ shaft, 2 levels. | Spec: 12,500 at 0.15 oz/t Au in zone 100′ x 30′ to 50′ ***1981***<br>(OGS OFR 5332, 1981) | Mineable by small o/p. |
| ONT. 488 | PIDGEON MOLYBDENUM<br>Pidgeon Molybdenum ML<br>52 F/16<br>49•57′00″ 92•21′30″ | Mo mineralization as flakes in aplite, as fracture filling seams in aplite and as flakes in muscovite–granite pegmatite. | **1946**: discovery.<br>**1954–58**: dd, adit driven 114′, bulk sampled, trenching and pitting.<br>**1965**: dd.<br>**1979–80**: ground geoph, dd. | Dd–ind: 15,800,000 at 0.08% Mo on a portion of property ***1979***<br>(Rio Algom L, 1979 AR)<br>***or*** ind: 10,000,000 at 0.1% Mo available by o/p<br>(Rio Algom L, 1980 AR) | Rio Algom and Dickenson ML hold 62.22% and 37.78% int, respectively. Need improved metal prices. |
| ONT. 489 | QUYTA<br>Nahanni ML<br>52 F/16<br>49•57.9′ 92•11.6′ | Qtz filled fractures in porphyry sill. | **1950**: dd.<br>**1980**: dd.<br>**1981**: dd, geol mapping.<br>**1982**: dd. | Spec: 150,000 at 0.10 oz/t Au in zone 900′ x 10′ to 200′ ***1981***<br>(OGS OFR 5332, 1981) | Mineable by decline; requires more expl. |
| ONT. 490 | SANDY BEACH LAKE<br>52 F/16<br>49•46′ 92•23′ | Irregular qtz veins and lenses in shear zones in volcanics. | **1950**: trenching, dd, sampling. | Poss: 40,500 at 0.21 oz/t Au, and spec: 60,750 at 0.21 oz/t Au in 2 zones ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 491 | SCHMIDT<br>R McCombe (in 1963)<br>52 F/16<br>49•50.3′ 92•14.6′ | Parallel qtz stringers in chlorite schist, with cp, py and sph. | **Pre–1930**: 29′ incl shaft.<br>**1950**: sampling, 1,007′ dd. | Spec: 12,500 at 0.15 oz/t Au ***1981***<br>(OGS OFR 5332, 1981) |  |
| ONT. 492 | VILLBONA<br>Goldlund ML (in 1979)<br>52 F/16<br>49•55′ 92•17′ | Au in qtz–filled fractures in granodiorite sill in metavolcanics. | **1950–51**: surface work, dd. | Spec: 20,800 at 0.50 ***1981***<br>(OGS OFR 5332, 1981) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 493 | WINDWARD (WINDFALL)<br>Camreco Inc<br>52 F/16<br>49°52.8' 92°22.2' | Narrow qtz veins in tension fractures in granodiorite sill associated with qtz feldspar porphyry. Similar geol setting to Goldlund, whose west zone crosses the boundary. | **1941**: discovery in area.<br>**1947**: dd.<br>**1950**: dd, 222' shaft connecting with Goldlund on 200' L, 2,979' lateral advance.<br>**1970–71**: re–examination.<br>**1979**: mag survey.<br>**1980**: 20,000' dd.<br>**1983, 1984**: feasibility study, dd. | Prob: 800,000 at 0.15 oz/t Au ***1988***<br>(Ont MP 142, p 74) | No prod history but probably some previous extraction. |
| ONT. 494 | DARKWATER<br>Minnova Inc.<br>52 G/14<br>49°50'42" 91°05'06" | Gold with py, aspy, tourmaline, and carbonate in qtz veins cutting granodiorite trondhjemite. | **1909**: staking.<br>**1910-12**: exploration.<br>**1934-37**: dd, shaft 424', 2 stamp mill, u/g work, bulk sampling.<br>1969-79: geoph, dd. | 40,000 at 0.23 oz/t Au ***1988***<br>(Seadrift International Exploration, Amalgamation Brochure, 16/11/88) | Seadrift International Exploration option. |
| ONT. 495 | MNW GROUP<br>Armeno Resources Inc<br>52H/1<br>49°14'07" 88°00'12" | A pegmatite dyke, up to 1,400' long and 45' thick, in massive pink granite. | **1955–56**: sampled, 14 ddh totalling 2,499'.<br>**c 1960**: examined as a beryl and cesium deposit. | 100,000 mt at 4% to 6% $LiO_2$ ***1987***<br>(Armeno Resources Inc MSE Listing Statement) | Assay values as high as 2% over 30'. |
| ONT. 496 | LAC DES ILES<br>Boston Bay ML<br>52H/4<br>49°10'00" 89°36'46" | Disseminated po, cp, pn, py and violarite in medium to coarse–grained gabbroic rocks, chiefly norite. About 5% sulphides. Zone traced for 3,000' by 100–150' wide and open below 600' depth. | **1963**: discovery of Cu–Ni mineralization, prospecting, mapping, ground geoph, geochem, trenching.<br>**1964**: dd.<br>**1966**: dd, property allowed to lapse.<br>**1973–76**: restaked and drilled outlining PGE deposits, geol, geoph.<br>**1986-89**: stripping, dd, road construction, mill, metallurgical testing. | 37,000 T/VM at 6.3 g/mt PGE, 0.68 g/mt Au, 0.12% Cu, 0.12% Ni ***1987***<br>(Mining Magazine, Sept 1987) | Pd/Pt ratio approx 7 to 1. |
| ONT. 497 | CONWAY<br>Leitch GML (in 1958)<br>52H/8<br>49°27'05" 88°00'05" | An Algoman pegmatite dyke consisting of potash feldspar phenocrysts in a matrix of qtz feldspar and muscovite, occurs in metasediments. | **1958**: 15 ddh totalling 3,200'. | 1,830,000 at 0.96% $Li_2O$ to 1,000' ***1958***<br>(Ont GR 31, p 68, 1965) | 1,400' long and 10–37' thick down to 1,000'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 498 | HARRICANA<br>Combined Mtl ML<br>(in 1959)<br>52H/8<br>49°26'25" 88°01'15" | Spodumene, largely altered to muscovite, occurs in a pegmatite dyke which is located within Archean metasediments. | **1955**: trenching, sampling and 15 ddh totalling 7,137'. | 1850' x 10'–45' at less than 0.5% $Li_2O$ ***1955***<br>(Ont GR 31, p 72–3, 1965) | Problems due to severe alteration of the spodumene. |
| ONT. 499 | McVITTIE<br>Armeno Resources Inc<br>52H/8<br>49°24'25" 88°01'22" | Medium–grained K–spar and spodumene occur in a pegmatite dyke which cuts biotite granite. | **1955–56**: trenching, 12 ddh aggregating 3,587'.<br>**1985**: geol, geoch, geoph. | Ind: 261,000 at 1.03% $Li_2O$ ***1956***<br>(Ont GR 31, p 89, 1965) |  |
| ONT. 500 | NAMA CREEK<br>York Cons Expl L<br>(in 1977)<br>52H/8<br>49°26'38" 88°02'10" | Two Algoman pegmatite dykes cut metasediments. The dykes are mineralogically unzoned and medium–grained spodumene is distributed throughout. The North zone is 2,800' long and the South zone is 800' long. | **1955–57**: trenching, sampling, 43,000' of dd, shaft sunk to 503' with stations cut at 150', 300' and 450'.<br>**1974**: metallurgical sample taken. | ***(i) North zone***: 2,784,000 ind at 1.11% $Li_2O$ to 1,000'<br>***(ii) South zone***: 1,508,332 ind at 0.95% $Li_2O$<br>***1955***<br>(R J Isaacs 31/10/55, for Nama Creek ML) | Preliminary testing indicated Fe content can be sufficiently reduced to satisfy user requirements. Leased until 1991. |
| ONT. 501 | PINE PORTAGE<br>Lun–Echo GML<br>(in 1961)<br>52H/8<br>49°19.6' 88°16.5' | Several sill–like spodumene–bearing pegmatite dykes intrude Archean sediments. Some columbite occurs sporadically in the No 1 pegmatite. | **1955**: 39 ddh totalling 10,561' on 6 pegmatites. | ***(i) No 1***: 900' x 30' at 30% spodumene<br>***(ii) No 3***: 1,050' x 20' at 25% spodumene<br>***(iii) No 4***: 800' x 15' at 10–15% spodumene<br>***(iv) No 5***: 550' x 5–15' at 20% spodumene<br>***1955***<br>(Ont GR 31, p 81–83, 1965) | The deposits are truncated by diabase at shallow depths and are altered near the contacts, thereby appreciably reducing the tonnage potential. |
| ONT. 502 | WEST LITHIUM<br>Combined Mtl ML<br>(in 1959)<br>52 H/8<br>49°26'30" 88°01'12" | Potash, feldspar and spodumene phenocrysts in qtz, feldspar muscovite groundmass within Algoman pegmatite. | **1955**: trenching, 13 ddh totalling 6,675'. | "Appreciable tonnage" of 1% $Li_2O$ ***1955***<br>(Ont GR 31, p 106, 1965) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 503 | LEITCH<br>Teck Corp<br>52 H/9<br>49°37'34" 88°02'08" | Gold in qtz veins in Archean greywacke. | **1935**: discovery, shaft.<br>**1936**: mill.<br>**1937-65**: u/g production 847,291 ozs Au, 31,775 ozs Ag<br>**1966,68**: secondary cleanup<br>**1980-85**: surface dump material processing. | Pot: 240,000 at 0.18 oz/t Au ***1981***<br>(NM 21/12/87) | Ateba Mines Inc processing dump material at Pan–Empine Mill. |
| ONT. 504 | UNDERSILL<br>Cryderman Gold Inc<br>52 H/9<br>49°37'18" 88°02'42" | Gold in qtz veins with py, asp, cp and tetrahedrite. In Archean greywacke. | **1934**: staking.<br>**1936-37**: shaft, mill.<br>**1937-42**: production 50,065 oz Au and 3,628 oz Ag.<br>**1946-47**: shaft to 2,656',<br>**1985**: waste rock dumps processed.<br>**1987-89**: geol, geoph, geochem, dd. | 25,000 at 0.40 oz/t Au ***1985***<br>(NM 7/10/85). |  |
| ONT. 505 | WILPORT<br>Wilport GML<br>(in 1959)<br>52 H/9<br>49°37'45" .88°00'30" | Auriferous qtz veins cutting sediments and volcanics. | **1935–40**: geoph surveys, trenching, dd, surface expl. | Dd–ind: 41,212 at $5.60/t Au (c 0.16 oz/t Au) ***1936***<br>(Globe & Mail 13/01/37) |  |
| ONT. 506 | WOODS–TYSON (AMORADA)<br>W T Woods &<br>A E Tyson<br>52 H/9<br>49°41'15" 88°02'30" | Qtz veins in vicinity of diorite intrusives into lavas. Mineralization incl Au, Ag, Mo and Cu. | **1934–42**: surface work, dd, trenching, test pitting, sampling.<br>**1958–59**: geoph surveys, stripping, trenching, dd.<br>**1965**: geol mapping, trenching, stripping, dd. | ***(i) No 1A***: 65' x 18" at 1.01 oz/t Au;<br>***(ii) No 3***: 72,000 dd–ind at 2% $MoS_2$ over 36" for 1220'<br>***1959***<br>(FP Surv Ms 1960, p 161) | The No 1A gold zone may have been mined in 1964. |
| ONT. 507 | PUDDY LAKE<br>Commerce Nickel ML<br>(in 1979)<br>52 H/13<br>49°57'50" 89°32'05" | Lenticular serpentinite intrusive contains 10 zones of lenses and veinlets of massive nickeliferous mag. Ni–Cu–Co sulphides are disseminated throughout the stock. | **1964–71**: discovery, ground mag, dd, EM survey, trenching, further dd. | 30,000,000 at 0.1–0.6% Ni, c 0.01–0.06% Co, 7.2% Fe; ***1967***<br>(NM 15/06/67; NM 17/08/67) | A massive sulphide zone grading 4.1–11.6% Ni was discovered N of main zone in 1967. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 508 | OBONGA LAKE<br>Chromasco L<br>(in 1977)<br>52 H/14<br>49°58'06" 89°29'24" | Numerous chromite occurrences as discrete grains, streaks and massive bands in Archean serpentinized gabbro stock. | **1928–30**: discovery, stripping, trenching, dd, 350' shaft on 'E' zone.<br>**1933–34**: 70 ton bulk sample, 5,000' dd.<br>**1936–38**: mng operations, u/g dev on 3 levels, u/g dd, 4,440 tons at 13–30% $Cr_2O_3$ shipped. | ***(i) 'E' zone***: 32,800 meas at 9.7% $Cr_2O_3$ incl surface dump<br>***(ii) 'A' zone***: 1,000,000 inf at 7% $Cr_2O_3$<br>***(iii) 'G' zone***: 1,500,000 inf at 2.3% $Cr_2O_3$ per 100' depth<br>***(iv) 'H' zone***: 'substantial tonnage at a grade up to 9% $Cr_2O_3$'<br>***1938***<br>(H H Merritt 08/05/38, unpubl rept) | 'H' zone assumed to have more promise than either 'A' or 'G'. Idle since 1938. Values in Ni, Cu, Pt, Pd. |
| ONT. 509 | AUBRY (SEYMOUR LAKE)<br>Dempster Expls L<br>(in 1958)<br>52 I/8<br>50°24'30" 88°26'55" | Spodumene–bearing pegmatite dyke intrudes schistose amphibolite and pillow lavas. | **1957**: mapping, sampling, 11 ddhs totalling 1,305' on North zone and 4 ddh totalling 327' on South zone. | ***(i) North zone***: 700' x 30–35' at 1.57% $Li_2O$<br>***(ii) South zone***: 400' x 50' at less than 1% $Li_2O$<br>***1957***<br>(Ont GR 55, p 47, 49, 1968) | SE part of South zone avg 0.5–1% $Li_2O$, SW part avg less than 0.5% $Li_2O$. |
| ONT. 510 | DESPARD<br>W Despard (in 1959)<br>52 I/8<br>50°25'35" 88°05'35" | Pegmatite dyke in Archean metavolcanics. Constituents are feldspar, spodumene, qtz, muscovite, tourmaline and apatite. | **1958–59**: 1,255 lbs of surface samples assayed, 10 ddh aggregating 1,724'. | 1,500' x 40' at 1.60% $Li_2O$ in western half and low–grade in eastern half ***1959***<br>(Ont GR 55, p 50–51, 1968) | The eastern part is low–grade due to alteration of spodumene. |
| ONT. 511 | ARMSTRONG-BEST<br>Steep Rock Resources Inc<br>52 J/2<br>50°01' 90°46' | Gold with py, cp in qtz veins in Archean rocks. | **1901-02**: shafts, tunnel.<br>**1981-84**: geol, geoph, dd.<br>**1987**: dd | 12,500 at 0.72 oz/t Au<br>***1986***<br>(Almaden Resources Corp. 1986 AR) | Almaden Resources option. |
| ONT. 512 | DAWSON–WHITE<br>Coastoro Res L<br>(in 1986)<br>52 J/2<br>50°08'15" 90°39'25" | Qtz lenses along greenstone–granodiorite contact. | **1900–02**: 64' shaft, mill, prod.<br>**1936–39**: surface work, dd, shaft deepened, drifting.<br>**1965**: dewatering, sampling, EM and mag surveys. | 100' x 42.7" at 1.39 oz/t Au plus other short high–grade lenses ***1937***<br>(C A Campbell 19/02/65 *in* Prospectus, Pomas ML, 1965) | c 225 tons at 0.84 oz/t Au were o/p mined in 1901–02. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 513 | ST ANTHONY MINE<br>Aubet Res L<br>52 J/2<br>50°06'45" 90°40'00" | Py, cp, gal, sph and Au in fissure veins at contact of lavas and granodiorite. | **1900–12**: pitting, trenching, shaft sinking, 10 stamp mill, u/g dev, prod.<br>**1915–18**: u/g dev, prod.<br>**1920–21**: tailings treated.<br>**1933–42**: 125 ton mill, u/g dev incl drifting, cross-cutting, new shaft, dd, prod.<br>**1964**: dd.<br>**1982–83**: 5 ddh, 4,487'.<br>**1985**: dd. | Proven–broken–prob: 64,264 at $25.23/t Au (0.435 oz/t Au) uncut ***1947***<br>(St Anthony ML 11/03/49 prospectus) | Intermittent prod 1905–41 totalled 63,310 ozs Au plus Ag. |
| ONT. 514 | ALCONA MINE<br>R Rosenblat (in 1985)<br>52 J/4<br>50°04'00" 91°38'00" | Au bearing qtz veins as fracture fillings along contacts between porphyritic basalt and massive andesite. | **1929**: discovery.<br>**1929–30**: trenching, test pitting.<br>**1932–33**: trenching, test sampling in bulk, dd.<br>**1936–37**: u/g work on 350' shaft.<br>**1939**: dd, sampling, mapping.<br>**1978–79**: EM and mag surveys, dump sampling, dd. | 1.44' x 350' at $13.65/t Au (0.39 oz/t Au) in No 1 vein ***plus*** 1.65' x 235' at $10.80/t Au (0.31 oz/t Au) in No 2 vein ***1936***<br>(Ross Kidd 01/08/79 rept for Oriana Devs L ***in*** VSE SMF 12/09/79) | The drilling and u/g work did not substantiate these surface sampling results. |
| ONT. 515 | ALKENORE–BUFFALO<br>Teeshin Resources Inc<br>52 J/4<br>50°03'45" 91°37'45" | Au–bearing qtz veins occur in fracture zones within andesitic lavas. Ag also present. | **1936–37**: stripping, trenching, dd.<br>**1980**: mag, EM and geochem surveys, trenching.<br>**1984; 86**: dd | Dd–ind: 70,000 at 0.24 oz/t Au to 300' ***c 1937***<br>(NM 21/08/80) | |
| ONT. 516 | SABINE<br>Umex Inc<br>52 J/7<br>50°18'37" 90°41'56" | N/A | **1980–81**: discovery.<br>**1981**: 2,642' dd. | Approx 1,000,000 grade unstated Zn-Cu in 3 lenses.<br>(MPS, 12/01/83) | |
| ONT. 517 | JUTTEN<br>Northern Can ML<br>52 J/8<br>50°23'05" 90°28'20" | Qtz vein contains Au, Ag, py, gal and cp. | **1948–50**: prospecting, stripping, dd. | 120' x 3.7' at 0.27 oz/t Au, 0.60 oz/t Ag ***1949***<br>(Northern Can ML, 1963 AR) | Dd done to a depth of 120'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 518 | McCOMBE (ROOT LAKE)<br>Cons Cdn Faraday L<br>(in 1970)<br>52 J/13<br>50°56'20" 91°42'20" | Fine-grained pegmatite dyke intrudes Archean mafic metavolcanics. Composed of albite feldspar, qtz and spodumene. No regular zoning but some banding does occur. | **1956**: 76 ddh. | 2,297,000 at 1.3% $Li_2O$ ***1957***<br>(Capital Lithium ML, 1957 AR) |  |
| ONT. 519 | WESTARIO<br>Westario Sulphur ML<br>(in 1958)<br>52 K/1<br>50°05'30" 92°11'00" | Disseminated py and po are found associated with lean qtzitic mag iron fm. | **1938–40**: surface work, dd, res. est.<br>**1951–52**: geoph survey, dd. | Dd–ind: 2,750,000 contains 750,000 t S, some Au to 500' ***1938***<br>(J N Robinson 15/04/38 ***in*** Prospectus, Westario Sulphur ML, 1938) |  |
| ONT. 520 | AIKEN–RUSSET<br>Canhorn Mining Corporation 50%<br>United Reef Petroleums L (50%)<br>52 K/13<br>50°58'40" 93°56'40" | Au mineralization in strongly sheared tuffs intruded by porphyry dykes along diorite sills. | **1936–37**: mag survey, stripping, dd.<br>**1943–47**: trenching, dd, geoph survey.<br>**1967–68**: dd.<br>**1973–77**: dd, stripping, trenching, ground geoph survey follow up to airborne.<br>**1987-88**: dd, geoph, stripping tr. | Ind: 102,555 at 0.22 oz/t Au in 3 separate zones ***1946***<br>(J L Tindale 04/01/66 ***in*** Prospectus, Aiken–Russet Red Lake ML, 04/03/66)<br>***or*** 70,000 at 0,20 oz/t Au (CMH 1989-90, p 455) | This property is located near the Madsen mine and may be the up–dip extension of Madsen mineralization. |
| ONT. 521 | MADSEN MINE<br>Red Lake Buffalo Resources Ltd.<br>52 K/13<br>50°58'00" 93°54'50" | Lenticular, silicified and carbonatized zones in tuff. Mineralization incl py, po, asp, mag and Ag. | **1936–76**: 2 shafts, dd, u/g dev, prod of 2,416,609 ozs Au plus Ag from 8,371,631 tons milled.<br>**1982**: dd, study of old records. | Proven & prob: 267,400 at 0.242 oz/t Au and ind: 46,075 at 0.30 oz/t Au ***1975***<br>(Bulora Corp L, 1975 AR) | Less subsequent production of c 39,801 tons. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 522 | STARRATT–OLSEN<br>Starratt Nickel ML<br>52 K/13<br>50°57′ 93°56′ | Au–bearing pods of garnetiferous tuff in a basalt flow next to a diorite contact. Mnrls incl py, mag, garnet, po, ilmenite, asp, cp and sph. | **1934-44**: trenching, dd, expl shaft, u/g dd, shaft to 310′ with 2 levels.<br>**1947–56**: workings deepened to 1,960′ with 11 levels, prod of 163,990 ozs Au and 27,432 ozs Ag.<br>**1961–64**: dd.<br>**1982**: dd, study of old records, tr. | 15,000 at 0.45 oz/t Au in mine ***1956***<br>(NM 26/07/73) | Efforts to extend resources by dd were inconclusive. Nothing of significance was discovered. |
| ONT. 523 | COPPER–LODE 'A'<br>Goldwinn Res L<br>(in 1986)<br>52 K/15<br>50°58′48″ 92°57′18″ | Blebs, veinlets and disseminations of po, py and cp locally replace mafics in schists, amphibolites and tuffs. Mo in qtz vein within granite and along diorite contacts; one zone 260′ x 85′ ranged 0.84–2.52% $MoS_2$. | **1956–60**: trenching, geoph and dd.<br>**1964–70**: extensive dd, bulk samples.<br>**1972**: feasibility study.<br>**1977**: IP survey, dd on Mo showing. | Dd–ind: 854,007 at 1.01% Cu, 0.57 oz/t Ag to 400′ (0.50% Cu cut–off) ***1970***<br>(Copper–Lode ML 09/12/70 prospectus) | Economic feasibility study in 1972 indicated the deposit was sub–economic. |
| ONT. 524 | COPPER–LODE 'E'<br>Selco Inc (in 1981)<br>52 K/15<br>50°57′54″ 92°52′48″ | Massive py, po and mag containing disseminated cp and sph as en echelon pods in garnetiferous amphibolite along a diorite sill and in shear zones within sediments. | **1962–64**: discovery, trenching, EM survey, geol mapping, 19,240′ in 65 ddh.<br>**1968–70**: airborne EM and mag; IP, EM and geol surveys; prospecting and line cutting.<br>**1972–73**: airborne and ground geoph, relogged dd core, 3 ddh.<br>**1977–78**: 4 ddh, ground geoph. | Dd–ind: 338,257 at 4.36% Zn, 0.60% Cu, 0.40 oz/t Ag to 200′ (2% Zn cut–off) ***1965***<br>(Copper–Lode ML 09/12/70 prospectus) | Property near Selco's South Bay mine. Road and power line pass near property. Drilling in 1977–78 proved inconclusive. |
| ONT. 525 | MINAKI PYRITE<br>52 L/2<br>50°04′ 94°36′ | Py-bearing zone 1,000′ long by 75′ wide striking EW and dipping 83° N is found within Archean granite and qtz and feldspar porphyries. | **1937**: 26 ddh, 22 pits excavated. | Dd–ind: 1,432,000 at 41% S to 250′ ***1937***<br>(Ont MRC 5, p 36, 1967) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 526 | REYNAR LAKE–ALMO LAKE<br>Falcon Point Res L<br>52 L/6<br>50°28'05" 95°01'07" | Disseminated to massive po, pn, violarite, cp and py closely associated with fault gouge zone cutting granitic and qtz diorite rocks. | **1953–54**: discovery, detailed surface work, geoph survey, dd.<br>**1955–56**: 402' shaft, u/g dev on 2 levels.<br>**1962**: shaft dewatered, sampled.<br>**1970**: IP survey, dd.<br>**1974**: dd.<br>**1977–78**: expl work, dd. | Ind: 1,010,000 at 1.2% Ni, 0.5% Cu between 250' and 375' levels ***1956***<br>(CMH 1962, p 185) |  |
| ONT. 527 | TOURIST LAKE<br>Huronian ML (in 1978)<br>52 L/7<br>50°16'18" 94°40'08" | Uranium values in biotite schist between a qtz diorite and qtz monzonite (both considered to be phases of one felsic intrusive). | **1968–70**: airborne rad survey, rock trenching, 3 Winkie drill holes, ground mag, scint and geol surveys.<br>**1975–77**: prop examination, dd, rock samples. | 370' x 3.7' at 0.83 lb/t $U_3O_8$ ***1976***<br>(Cons Summit ML 1976, rept to shareholders) | Only minor radioactivity intersected in drilling; outlining of other potential zones not encouraging. |
| ONT. 528 | WERNER LAKE–GORDON LAKE MINE<br>Faraday Resources Inc<br>52 L/7<br>50°27'54" 94°54'45" | Po, pn, cp and py within peridotite plugs located in a fault zone. Sulphide distribution erratic. Sulphides occur in long narrow stringers parallel to host rock banding in mafic plugs and amphibolites. | **1942–44**: discovery, expl, dd.<br>**1948–49**: geoph survey, dd.<br>**1952–61**: dd, u/g dev in 2 shafts, 700 t/d mill erected.<br>**1962–72**: cut and fill mng, expl, dd, c 26,700,000 lbs Ni plus Cu, Pt, Pd produced to 1972.<br>**1973–76**: mill operated, geoph survey on Copper zone. | ***(i) Section 8300E***: 1,700,000 ind at 0.46% Ni.<br>***(ii) Copper zone***: 90,000 ind at 1.23% Cu open at both ends.<br>***(iii) Mine***: 170,421 proven at 0.85% Ni, 0.35% Cu<br>***1971***<br>(Cons Cdn Faraday L, 1971 AR) | 56,700 tons milled after resource figure for mine stated. Operation ceased due to decreased tonnage, ore dilution, and higher operating costs. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 529 | GOLD FRONTIER<br>Jaime Frontier Res Inc<br>52 M/1<br>51°04'30" 94°08'30" | Mineralized qtz veins in shear zones associated with qtz porphyry intruded into intermediate volcanics. Ore mnrls incl py, po, gal, cp, sph and Au. | **1934–42**: pitting, trenching, dd, No 1 shaft sunk 495', No 2 shaft sunk 125'.<br>**1945–47**: No 1 shaft deepened, dd, u/g dev on 5 levels.<br>**1961**: examined property.<br>**1974–77**: workings dewatered, 100 t/d mill erected, mill tune-up, u/g dev, bulk sampling<br>**1979**: feasibility report.<br>**1980**: bulk sampling<br>**1981-88**: dd, geol, site preparation, u/g work, bulk sampling. | 80,100 at 0.48 oz/t Au ***1985***<br>(Jaimie Frontier Resources Inc 1985 AR) | There appears to be an excellent chance to dev additional tonnages. 720 tons milled 1980. |
| ONT. 530 | MAY–SPIERS<br>Dumont Nickel Corp<br>52 M/1<br>51°02'40" 94°13'36" | Gold mineralization in qtz veins which occur in shear zones close to and along contacts between volcanics and porphyry intrusives. | **1928–34**: discovery, trenching, pitting, dd.<br>**1935–37**: 375' shaft with u/g dev on 2 levels, surface and u/g dd.<br>**1981–83**: geoph, dd. | Poss: 30,000 at 0.09 oz/t Au ***1981***<br>(Dumont MSE, AL 181/81) | Values obtained u/g were not substantial enough for continuing exploration. |
| ONT. 531 | RED CREST<br>Orofino Res L<br>52 M/1<br>51°03'45" 94°04'35" | Coarsely crystalline auriferous py and 2nd generation fine py, mo, tellurides and native Au derived from coarse qtz–py veins. Both in fracture zones along diorite–lava flows contact. | **1930–31**: dd.<br>**1934–37**: trenching, dd, o/p operation, mng plant, shaft to 600' with 4 levels, u/g dev, 591 tons milled.<br>**1981; 87**: field program, dd. | Ind: 47,439 at 0.269 oz/t A (uncut) ***or*** 21,182 at 0.318 oz/t Au, (uncut, 10% dil) ***1938***<br>(Ont AR 1939, pt 2, p 202) | No reason given for mine shutdown. |
| ONT. 532 | ROWAN<br>Goldquest Expl Inc<br>52 M/1<br>51°04'15" 94°07'15" | Qtz veins containing Au and sulphides occupy fracture zones close to the contact between lavas and qtz porphyry. | **1928**: discovery.<br>**1934**: 432' shaft, dd, lat dev.<br>**1946–47**: dev.<br>**1953**: dd.<br>**1958**: 4,500' dd, sampling.<br>**1983-86**: str, dd, bulk sampling. | 50,000 at 0.79 oz/t Au (uncut) ***1985***<br>(Dickenson ML 1985 AR) | May eventually ship to Dickenson mill. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 533 | TROUT BAY<br>Wilanour Res L<br>(in 1986?)<br>52 M/1<br>51°00'10" 94°12'20" | Po, sph, py and cp mineralization fill dilation zones in and partly replace greywacke, argillite and gabbro. Two bodies about 800' apart occur stratigraphically on or within several feet of a 'barren' sulphide horizon. | **1956–62**: geol and EM surveys, dd, trenching, SP and mag surveys.<br>**1966–72**: airborne mag and EM, trenching; ground mag, IP and resistivity; dd.<br>**1973**: feasibility studies.<br>**1975–77**: airborne survey, prospecting, road construction begun. | ***(i) East zone***: 124,760 at 7.86% Zn, 1.5% Cu, 1.70 oz/t Ag, 0.24% Pb, 0.007 oz/t Au<br>***(ii) West zone***: 13,766 at 4.75% Zn, 0.68% Cu, 0.94 oz/t Ag<br>***pre–1969***<br>(Ont MRC 12, p 154, 1969) | The feasibility study encouraged building of a highway to the property and further investigations. In 1980 the property was to be re-evaluated by Trout Bay Joint Venture. |
| ONT. 534 | TROUT BAY NICKEL<br>Wilanour Resources Ltd.<br>52 M/1<br>51°00'30" 94°12'30" | Cu–Ni mineralization in antigorite tremolite schist, a sheared altered basal portion of a gabbroic sill. Ore mnrls incl po, pn, cp and py. | **1956**: discovery, geol and EM surveys, dd.<br>**1960–62**: trenching, SP survey, dd, geol and mag survey.<br>**1970**: expl, geoph, dd. | 500' x 11'–37' at 0.55% Ni, 0.20% Cu ***1970***<br>(Cochenour Willans GML, 1970 AR) | The nickel showing is part of a 2.25 mi long Ni–Cu zone. Trout Bay copper deposits are located nearby. |
| ONT. 535 | BATHURST<br>St. Mary Resources Ltd.<br>(in 1986)<br>52 N/2<br>51°15'00" 92°52'30" | Numerous auriferous qtz veins within felsic intrusives and Keewatin volcanics. No 3 vein is 165' long x 2' wide at 0.86 oz/t Au on surface 1 and 180' long x 3.5' wide at 0.52 oz/t Au at 200' level. | **1926–29**: discovery, stripping, shaft to 300', mill erected, very small prod.<br>**1934–36**: shaft dewatered, records examined, shaft deepened to 420', some dd.<br>**1978–79**: selected sampling, mapping, dd. | Proven: 80,000 at $20/t Au ***1934***<br>(Bathurst GML 06/10/34, letter to shareholders) | Initially, drilling of No 3 vein is intended to extend known reserves below the 200' level of the shaft; later, dewatering and deep drilling is envisaged. Under a 1979 deal, Northgate Expl L funded the work. |
| ONT. 536 | CORLESS<br>Corless Patricia GML<br>(in 1937)<br>52 N/2<br>51°08' 92°52' | Mineralized qtz veins in volcanics and intrusives. | **1926–36**: stripping, trenching, test pitting, dd. | 518' x 12' at $16.09/t Au<br>***1936***<br>(Richmond Dev CL 18/02/56 progress rept for Corless Patricia GML) | |
| ONT. 537 | EARNGEY<br>Orofino Resources Ltd<br>52 N/2<br>51°04'00" 92°36'42" | N/A | **1937**: tr, dd.<br>**1959**: dd.<br>**1968**: geol.<br>**1983-86**: geol, geoph, dd. | 64,400 at 0.28oz/t Au<br>***1959***<br>(Orofino Resources Ltd 1985 AR) | 1959 staking was done to cover southern extension of Uchi mine. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 538 | UCHI MINE<br>Lac Mnrls L<br>52 N/2<br>51°04'15" 92°35'45" | Qtz veins within greenstone belt carry gold in sulphides. | **1927–29**: dd, Uchi shaft, Grasett shaft, u/g dev.<br>**1936–39**: dd, Hanalda shaft, Jalda shaft, u/g dev, prod.<br>**1940–43**: all properties amalgamated, dd, u/g dev, prod.<br>**1985**: geoph, geochem, geol. | ***(i) Uchi***: 214,000 at $5.15/t Au (0.147 oz/t Au)<br>***(ii) Grasett***: 78,295 at $7.75/t Au (0.22 oz/t Au) ***1942***<br>(Hasaga GML, 1948 AR0 | Mine closed due to insufficient ore reserves after having mined 757,074 tons grading 0.15 oz/t Au. |
| ONT. 539 | ABINO<br>Goldquest Expl Inc<br>52 N/4<br>51°06'30" 93°45'40" | Au in qtz veins and stringers within banded chert zone and in silicified lavas. Au, py, po, cp, gal and sph in qtz fracture filling within 100'–1,650' wide, 3,300' long and 1,000' deep granodiorite zone. | **1939–46**: discovery, stripping, trenching, dd, geol and mag surveys.<br>**1959–60**: dd, mng plant, shaft to 530' with u/g dev on 3 levels, flooded.<br>**1974–77**: extensive dd, mag and EM surveys.<br>**1983**: geochem, geoph., u/g work, dd.<br>**1985-86**: u/g work, dd, bulk sampling. | Ind: 405,162 at 0.203 oz/t Au (uncut) in granodiorite zone ***1976***<br>(CMH 1977–78, p 17) | |
| ONT. 540 | ANNCO<br>Wilanour Resources Ltd<br>52 N/4<br>51°04'00" 93°48'18" | Fe fms, qtz-latite, sediments underlain by basic volcanics, serpentite and variolitic basalts. Au in complex block faulted structures in talcose rocks. | **1927–35**: stripping, trenching, dd.<br>**1963–71**: expl and dev from 2,050 level of Cochenour mine; Au–Ag recovered from 149,243 tons mined.<br>**1980**: u/g work. | 50,000 of "excellent grade" Au ***1971***<br>(NM 31/01/74) | Possibility of being mined through access from Cochenour mine.<br>A detailed exploration of this and other properties in the vicinity of the former Cochenour mine was resumed in 1979 by Wilanour Res L. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 541 | BUFFALO RED LAKE<br>Red Lake Buffalo Resources Ltd<br>52 N/4<br>51•00'34" 93•51'14" | Au and py in qtz–tourmaline veins within porphyritic qtz latite. Au extends into wallrock. | **1923–31**: discovery, trenching and pitting, dd.<br>**1946–48**: dd, shaft to 200' with drifting and cross-cutting on 1 level, u/g dd.<br>**1970**: surface work.<br>**1980**: dd.<br>**1981–82**: ramp extended to 175' L where explored; o/p material mined and tested at Cochenour mill. | 200,000 at 0.179 oz/t Au ***1981***<br>(NM 05/03/81)<br>***or*** 461,800 at 0.144 oz/t Au to 630' ***1988 ?***<br>(Ont Unpublished Report 1988) | Work was suspended in March 1982 after u/g exploration had shown that mineralization was diffuse, requiring either costly selective mining or bulk extraction at high dilution. |
| ONT. 542 | CAMPBELL RED LAKE<br>Placer Dome Inc.<br>52 N/4<br>51•03'45" 93•44'30" | Tailings | **1986**: Auger drilling. | 4,500,000 at 0.051 oz/t Au ***1986***<br>(NM 22/09/86) | FreeGold optioned tailings in 1987. |
| ONT. 543 | COCHENOUR WILLANS<br>Inco Ltd<br>52 N/4<br>51•04'36" 93•48'18" | Gold ore associated with folded silicitized and carbonatized overthrust fault zone cutting Archean volcanic rocks. | **1926-27**:. staking.<br>**1932**: dd.<br>**1934-36**: shaft, u/g exploration, dd.<br>**1939-68**: production 1,123,099 oz. Au, 50,126 oz. Ag.<br>**1973**: dd.<br>**1980**: u/g work.<br>**1984**: dd.<br>**1988-89**: u/g work, dd. | Pot: 1,000,000 at 0.25 oz/t Au ***1988***<br>(NM 24/10/88)<br>***or*** ind: 1,087,000 at 0.257 oz/t Au ***1988***<br>(Information Booklet for Proposed Amalgamation of Wilanour Res, Wilmar and Annco Nov 21, 1988) |  |
| ONT. 544 | CONSOLIDATED MARCUS<br>Wilanour Resources Ltd<br>52 N/4<br>51•05'30" 93•45'15" | Gold in a vein. | **1944-47**: dd, shaft, u/g work.<br>**1950-55**: dd.<br>**1961-66**: u/g work, dd.<br>**1979**: geoph, geol, dd.<br>**1981**: dd.<br>**1984**: dd. | Dd-ind: 60,000 at 0.18 oz/t Au ***1984***<br>(Wilanour Res Ltd. Information Booklet for Amalgamation 21/11/88). | Access underground from Cochenour mine. |
| ONT. 545 | COPPER–MAN<br>Copper–Man ML<br>Ridgefield Expls L (in 1964)<br>52 N/4<br>51•04' 93•59' | Auriferous qtz veins in metavolcanics. | **1959–62**: stripping, dd. | Dd–ind: 300' x 3' at 1.11 oz/t Au ***1959***<br>(NM 28/01/60) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 546 | HANSON–CAMPBELL<br>Alcourt ML (in 1972)<br>52 N/4<br>51°04'33" 93°58'37" | Auriferous qtz veins in diorite. | **1937**: dd.<br>**1960–64**: trenching, mapping, sampling, dd, mag and mercury level surveys. | 125' x 3' at 0.266 oz/t Au ***1962***<br>(H Grant Harper 31/05/65 ***in*** Prospectus, Alcourt ML, 1965) | Resource estimate based on surface examination only. |
| ONT. 547 | HASAGA MINE<br>Lac Mnrls L<br>52 N/4<br>51°01'15" 93°49'40" | Au, Ag, py and cp in qtz veins and lenses in vertical fracture zones within qtz-latite. | **1927–36**: discovery, trenching, dd.<br>**1937–53**: surface and u/g dd; 3 shafts, No 1 to 1,075', No 3 to 2,450', u/g dev on 14 levels, prod of 219,320 oz Au and 92,823 oz Ag. | Proven: 47,805 at 0.108 oz/t Au in stopes and pilars ***plus*** ind: 200,203 at 0.192 oz/t Au below 1,800' level ***1952***<br>(Ont GR 56, p 42, 1968)<br>***or*** dd–ind: 250,000 at 0.17 oz/t Au<br>(CMH 1981–82, p 199) |  |
| ONT. 548 | HOWEY MINE<br>Teck Corp<br>52 N/4<br>51°01'06" 93°49'25" | Gold with sulph minerals in qtz veins. | **1925-26**: discovery,dd.<br>**1927**: shaft.<br>**1927-41**: prod. 421,324 oz. Au, 144,253 oz Ag.<br>**1942-57**: clean-up 268 oz. Au, 61 oz. Ag.<br>**1961**: dd. | 780,000 at 0.08 oz/t Au ***1988 ?***<br>(Halley Resources Ltd, News Release 12/04/88) | Halley Resources Ltd has option. |
| ONT. 549 | HUMLIN RED LAKE<br>Humlin Red Lake ML<br>52 N/4<br>51°01'45" 93°56'45" | Auriferous veins in basalts and latite breccias. | **Prior 1941**: rock trenches.<br>**1945–46**: 18,000' dd.<br>**1981, 1982**: mapping and survey work, dd. | Dd–ind: 150' x 12' at c 0.13 oz/t Au ***1945***<br>(NM 16/08/45) |  |
| ONT. 550 | McFINLEY RED LAKE<br>McFinley Red Lake ML<br>52 N/4<br>51°07'30" 93°44'45" | Au–bearing qtz veins and sulphide mineralization in fractured iron formation or siliceous sediments. | **1928**: claims surveyed.<br>**1941–57**: dd, mag survey, geol mapping, trenching, shaft sunk to 423' with 3 levels, surface plant erected, u/g dev.<br>**1974–75**: mag and EM surveys, geol mapping, dd.<br>**1981–87**: bulk sampling, overburden, drilling, dd, u/g work, mill. | DD-ind: 890,000 at 0.19 oz/t Au ***1987***<br>(McFinley Red Lake News Release 18/03/87) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 551 | PARVUS–RED LAKE<br>Parvus ML<br>52 N/4<br>51°00′30″ 93°54′45″ | Auriferous qtz veins in dacite and in shear zones along margin of diorite. Py, po, asp and Fe–bearing carbonates are present. | **1925–26**: prospecting and trenching.<br>**1937–38**: stripping, trenching, dd.<br>**1945–48**: trenching, dd.<br>**1960–63**: dd, surveyed.<br>**1971–73**: geoph surveys, dd. | ***(i) No 2***: 150′ x 5′ at 0.253 oz/t Au<br>(NM 20/08/60)<br>***(ii) No 4***: 500′ x 7′ dd–ind at 0.092 oz/t Au ***1947***<br>(S Szetu 25/06/74 in Prospectus, Parvus ML, 27/06/74) | The core was relogged in 1974, and the property was being remapped. Dd in 1973 encountered zinc values. |
| ONT. 552 | REDCON<br>Goldquest Expl Inc<br>52 N/4<br>51°05′30″ 93°44′00″ | Au–bearing veins in andesite of early Precambrian age. The volcanics form numerous synclines and anticlines of various sizes. | **1945–60**: trenching, dd, mag, resistivity, and IP surveys.<br>**1972–73**: airborne mag and EM surveys, ground follow–up, dd, detailed geoph surveys.<br>**1978–79**: dd.<br>**1981–83**: dd, 12,613′, stripping, channel sampling.<br>**1987**: dd. | Dd–ind: 270′ x 4′ at 0.27 oz/t Au ***1959***<br>(H G Harper 23/04/74 rept for Redcon GML) | Additional drilling, geophysics and surface stripping have been recommended to test new Au–bearing qtz vein discovery of 1979. |
| ONT. 553 | REDRUTH<br>Redruth GML<br>52 N/4<br>51°01′20″ 93°58′00″ | Qtz veins in shears. Mineralization incl Au, py, po, asp, cp, sph and gal. | **1944–46**: dd, trenching. | 110′ x 1.83′ at 0.383 oz/t Au ***1946***<br>(Ont GR 39, p 33, 1965) |  |
| ONT. 554 | SANSHAW<br>Bonanza Red Lake Expls Inc<br>52 N/4<br>51°02′42″ 93°49′00″ | Au mineralization in sheared granodiorite west of greenstone contact. Py, cp, sph, po and qtz stringers present. | **1935–37**: surface expl, dd, mng plant, shaft to 35′.<br>**1941**: 2,738′ dd.<br>**1946–48**: shaft to 437′ with u/g dev on 2 levels, u/g dd, mine flooded.<br>**1958–66**: dd.<br>**1973–75**: dd, u/g dd from Wilmar's 1,300′ level.<br>**1979–81**: 1,147′ dd.<br>**1987**: dd. | 175,000 at $7/t Au ***1947***<br>(NM 29/01/48) | Severe water problems may make only 50–70,000 tons recoverable. (W P Mackle 02/01/73 for Xtra Devs Inc). |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 555 | WILMAR MINE<br>Wilanour Resources Ltd<br>52 N/4<br>51°04' 93°47.5' | Au found in 3 modes; a qtz stockwork in granodiorite, a qtz fault breccia zone in agglomerate and qtz–filled fractures in carbonate zones within volcanics. | **1927–46**: stripping, trenching, dd.<br>**1960–66**: u/g expl and dev from the 1,300' level of Cochenour mine.<br>**1967–71**: 193,435 tons milled at Cochenour mill.<br>**1973–75**: u/g and surface dd, 34,378 tons of test material milled, mine flooded.<br>**1979**: geoph and geol surveys, reassessment of property by Wilanour Res L.<br>**1980–85**: mill testing, prod, dd, u/g work. | ***(i) West Granodiorite zone***: 3.15–4.5 million at 0.076–0.131 oz/t Au ***1975***<br>(Cochenour Willans GML, 1975 AR)<br>***(ii) East Breccia zone***:<br>ind: 100,000 at 0.25 oz/t Au ***1974***<br>(NM 13/06/74)<br>***or***<br>Poss: 168,000 at 0.15 oz/t Au ***1985***<br>(Information Bulletin for Amalgamation Wilanour Res 21/11/88) | Inco Gold Co. option. Access through Cochenour mine workings. |
| ONT. 556 | SOL–D'OR<br>Ronda Copper ML (in 1977)<br>52 N/7<br>51°16'40" 92°31'30" | A series of 6 sub–parallel qtz veins occur in a 350' wide fracture zone in Archean volcanics. Mineralization incl py, cp, gal, sph and Au. | **1927–30**: discovery, pitting.<br>**1932–37**: dd, shaft to 164', drifting on 154' level, o/p mng.<br>**1974–76**: IP survey, geol, dd. | Ind: 8,565 at $20/t Au in veins nos 3 and 4 ***1936***<br>(NM 18/02/37) | The company was privately financed and went bankrupt in 1940. Only 560 tons of ore were milled up to mine closure in 1937. |
| ONT. 557 | HORSESHOE ISLAND<br>52 N/8<br>Nexus Res Corp<br>51°22'50" 92°26'15" | Gold zones within and marginal to Horseshoe Island stock. Zone about 1,700 long, 14 feet wide. | **1944-46**: dd.<br>**1974**: mag, VLF-EM<br>**1985-87**: dd, geol, geoph. | 850,000 at 0.13 oz/t Au ***1987***<br>(VSE SMF 100/87) | |
| ONT. 558 | RICHARDSON<br>Golden Terrace Resources Corp<br>52 N/9<br>51°30'11" 92°21'07" | Native gold with py sph, gal, asp in qtz veins. | **1929**: staking.<br>**1934**: dd.<br>**1958-59**: EM, dd.<br>**1966**: shaft, mill, prod 35.02 kg Au and 3.17 kg Ag.<br>**1981**: IP survey.<br>**1984-88**: tr, geochem, dd. | Inferred: 700,000 at 0.20 oz/t Au ***1987***<br>(NM 7/03/88) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 559 | KOVAL–OHMAN<br>Lac Mnrls L<br>52 O/2<br>51°14'00" 90°33'50" | Au mineralization in biotite–qtz–feldspar schist which forms local intercalations in mafic volcanics. | **1953–54**: extensive dd.<br>**1975**: geol, geoph and dd expl programme. | Dd–ind: 149,400 at 0.19 oz/t Au plus 41,000 at 0.14 oz/t Au ***1954***<br>(Ont Map P 809) | Due to extensive overburden and uniqueness of deposit, research was planned to seek other geotechnical exploration methods. |
| ONT. 560 | DOBIE<br>Bond Gold Canada Inc<br>52 O/6<br>51°23'00" 91°15'00" | In Archean Miles-Dempster greenstone belt. | **1984**: airborne geoph.<br>**1986**: dd. | Dd-ind: 360,000 at 0.14 oz/t Au ***1986***<br>(NM 7/12/87) |  |
| ONT. 561 | KAPKICHI LAKE<br>Umex Inc<br>52 O/8<br>51°28'24" 90°19'28" | Disseminated po and cp occur in altered qtz diorite within Keewatin greenstone. Ultramafic lens hosts best mineralization. | **1945–49**: geoph survey, dd.<br>**1956–60**: test pitting, trenching, dd, mag survey.<br>**1970–72**: dd, airborne mag and EM survey. | ***(i) Kapkichi Lake G***: 7,500,000 at 0.41% Cu, 0.10% Ni, to 600'.<br>***(ii) Kapkichi Lake J***: 37,000,000 at 0.40% Cu, 0.12% Ni, to 600'.<br>***(iii) K 1–1***: 73,500,000 at 0.39% Cu, 0.11% Ni, to 600'.<br>***1972 ?***<br>(P Potapoff UMEX, 29/07/77 letter to NMI) | The low–grade Cu–Ni mineralization could not be profitably mined under 1970 economic conditions.<br>O/p K 1–1 experimental mng in 1980. Shipped to Thierry mill. Inactive 1982, optioned to Umex Inc. Cons-Thompson–Lundmark has interest. |
| ONT. 562 | KASAGIMINNIS LAKE<br>Power Explorations Inc<br>52 O/8<br>51°16'00" 90°25'00" | N/A | **1986-88**: discovery, dd. | Dd–ind and inf: 2,900,000 at 0.14 oz/t Au to 1,000 ***1989***<br>(Power Explorations Inc. 1987 AR) |  |
| ONT. 563 | THIERRY MINE<br>Umex Inc<br>52 O/8, 9<br>51°29'50" 90°20'40" | Po, cp, py, pn, violarite, mag in Archean bio–chl–hb ultramafic schist shear zone and massive mafic to ultramafic rock. Zone 3,200' x 100' x 1,600'. | **1970–72**: dd, airborne ground mag and EM, discovery.<br>**1972–76**: u/g, o/p dev shaft, 1,781.<br>**1976–80**: prod 4,034,110 tons of about 1.20% Cu.<br>**1977–82**: prod. | Proven: 15 000 000 mt at 1.63% Cu ***1975***<br>(Union Minière, 1975 AR) | Operations ceased in April 1982 due to low copper prices. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 564 | CROWSHORE<br>Gallant GML<br>52 O/9<br>51°31'30" 90°01'30" | Gold in qtz veins and sulphs in Precambrian iron formation and volcanics. | **1937–42**: discovery, geoph, dd.<br>**1947**: shaft 575', u/g exploration, dd.<br>**1981**: dd, geochem, geoph.<br>**1987-88**: dd, geoph | *(i) "C" zone*: 4.3' x 150' at 0.49 oz/t Au ***1949***<br>*(ii) "D" zone*: 75,000 at 0.30 oz/t Au ***1981***<br>(VSE SMF 30/86, p 11, 22) |  |
| ONT. 565 | PICKLE CROW MINE<br>Noramco Mining Corp<br>52 O/9<br>51°30'30" 90°03'20" | Au, Ag, W in fracture zones and veins in metavolcanics and iron formation. | **1928**: staked.<br>**1933**: 380' shaft.<br>**1935–66**: prod 1,416,214 oz Au, 168,757 oz Ag.<br>**1943**: prod 9,012 lb $WO_3$.<br>**1974**: geoph, dd.<br>**1980**: geoph, dd.<br>**1981**: dd, 25,052'.<br>**1982**; dd, tr, geol.<br>**1985-87**: geoph, u/g work. | 1,180,000 at 0.18 oz/t Au ***1988***<br>(Noramco Mining Corp 1989 AR) |  |
| ONT. 566 | LANG LAKE<br>Bochawna Copper ML<br>52 O/12<br>51°35'45" 91°37'00" | Py, cp and mo disseminated within greywacke, volcanics and feldspar porphyry or as fracture fillings and as epidote replacement. | **1966–71**: discovery, prospecting, trenching, sampling, EM survey, dd.<br>**1987**: dd. | 1,200' x 400' at 0.3% Cu, some Ag, erratic Mo ***1968***<br>(Ont MRC 12, p 179, 1969) | Drilling in 1971 was disappointing but the zone is open to the east and the company holds 600 acres ***1978***. Property under lease. |
| ONT. 567 | FROND LAKE<br>(FORT HOPE)<br>Tandem Res L<br>52 P/9<br>51°38'07" 88°17'00" | Gold in 2 zones, assoc with qtz and sulphs in a series of bedded sediments. | **1940**: discovery, dd.<br>**1972**: geoph, 65 ddh, 12,000'.<br>**1981**: mag VLF geoph.<br>**1982**, 1983: humic geochem survey, dd, geoph.<br>**1987**: dd. | 300,000 at 0.22 oz/t Au<br>(VSE FS 19/86 p 9) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 568 | GOLDEN HOPE MINE<br>La–Chib ML (in 1984)<br>52 P/9<br>51°36'40" 88°02'25" | Au in qtz veins filing tension fractures in greenstone along contact with porphyry dyke. Po, py and cp associated mnrls. | **1927–28**: shaft to 115' with u/g dev at 100' level, surface sampling.<br>**1933–34**: mine dewatered and sampled, dd.<br>**1946**: mag survey, dd.<br>**1958–59**: stripping and trenching.<br>**1963, 1972**: feasibility studies. | ***(i) Shaft vein***: 575' x 34.5' at $20.81/t Au ***1928*** (Ont AR 1919, pt 2, p 46)<br>***(ii) California vein***: 130' x c 1.5' at 0.18 oz/t Au and 30' x c 1.5' at 0.09 oz/t Au ***1955*** (R A Halet 31/01/56 in Prospectus, Golden Hope ML, 20/03/57) | Gold values are erratic. |
| ONT. 569 | MIMINISKA LAKE<br>New Jersey Zinc Expl C (Can) L<br>52 P/10<br>51°35' 88°51' | Qtz carb vein systems with py–stibnite–Au mnrl in altered mafic volc near contact with metased. | **1980**: dd.<br>**1981**: discovery. | ***West zone***: 83,000 at 1.37% Sb and 0.07 oz/t Au<br>***East zone***: 660,000 at 3.1% Sb and erratic Au values<br>***1982***<br>(OGS, MP 107, p 62, 1982) | |
| ONT. 570 | KARL-ZEEMEL<br>Power Explorations Inc<br>53 B/9<br>52°34'00" 90°15'00" | Gold in iron formation. | **1987**: discovery, dd. | Dd–ind: 200,000 at 0.19 oz/t Au ***1987*** (Power Explorations Inc 1987 AR) | |
| ONT. 571 | OPAPIMISKAN LAKE<br>Placer Dome Inc 43%<br>Inco Ltd 32%<br>Corona Corp 25%<br>53 B/9<br>52°37' 90°25' | Outlined Au mineralization occurs in two discrete zones in banded iron formation within a sedimentary belt which is enclosed in volcanics. | **1962**: discovery.<br>**pre–1981**: dd, geoph, geochem.<br>**1981**: dd 55 holes.<br>**1984, 1985**: u/g exploration, dd, 660 m ramp.<br>**1987-89**: u/g exploration, bulk sampling. | Dd–ind: 6,000,000 at 0.20 oz/t Au ***1987*** (Placer Dome Inc, Form 10–K 31/12/88) | |
| ONT. 572 | SNOPPY LAKE<br>Placer Dome Inc<br>53 B/9<br>52°37' 90°21' | N/A | **1985**: dd, discovery.<br>**1988**: shaft. | 4,000,000 at 0.20 oz/t Au ***1987*** (NM 7/09/87) | Inco Ltd and Corona Corp have interest. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 573 | ARSENO LAKE<br>Westfield Minerals Ltd<br>53 B/14<br>52°48′ 91°12′ | Zinc, lead sulphides and silver in sericite–chl–bio schist and iron formation. | **1985-88**: dd, geol, geoph. | Dd-ind: 1,000,000 at 8.7% Pb + Zn, 1.5 oz/t Ag ***1988***<br>(Northern Dynasty Explorations 1988 AR) | Northern Dynasty Expl. has 32% interest, Newfields Minerals Inc 14%. |
| ONT. 574 | RANDALL LAKE<br>Pyrotex Mng & Expls CL (in 1971)<br>53 B/14<br>52°50′50″ 91°11′00″ | Stringers and veinlets of calcite and qtz, weakly mineralized with py and cp, in a shear zone along a volcanic–gabbro contact. | **1957–59**: stripping, dd, airborne EM, ground EM and mag, trenching.<br>**1967**: samples, geol rept, dd. | 10,000 Cu, grade unstated ***1968***<br>(CANMET IR 68–5, 1968) | Surface samples gave a weighted average of 1.7 oz/t Au, 13.19 oz/t Ag and 2.06% Cu. |
| ONT. 575 | GOLSIL (BERENS RIVER MINE)<br>Zahavy ML<br>53 C/13<br>52°50′30″ 93°38′10″ | Qtz, py, gal, sph, tetrahedrite, dyscrasite, Au and Ag in erratic lenticular ore shoots 3′–25′ wide by 60′–350′ long. Mineralized zones trend E–W across rhyolite. | **1927–48**: trenching, surveying, dd; No 1 shaft to 1,898′, 17 levels, winze to 3,246′ with 8 levels; No 2 shaft to 511′ with 3 levels; extensive u/g dev, prod Au, Ag, Pb, Zn from 560,607 tons milled between 1939–48.<br>**1960–67**: EM survey, dd, dewatered No 2 and deepened to 765′, u/g expl and dev, dd.<br>**1971**: geoph work.<br>**1974–75**: mine dewatered, sampling, mapping, dd.<br>**1980**: dd.<br>**1981**: dd, airborne mag and EM surveys.<br>**1982-88**: dd, u/g exploration, bulk sampling. | Ind: 302,500 at 0.21 oz/t Au ***1988***<br>(Ont MP 142, p 48) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 576 | SENET<br>Minorex L (in 1970)<br>53 C/13<br>52°45'50" 93°32'30" | Main showing consists of 2 lenses of py, po, cp with some Au and Ag as disseminations or stringers in weakly sheared silicified metabasalt. Multiple auriferous qtz veins are in qtz porphyry 800' SE of main showing. | **1929**: discovery, stripping, trenching.<br>**1944–46**: trenching, sampling, dd.<br>**1952**: dd.<br>**1956–57**: geol; ground mag, EM, SP and electrical resistivity surveys; dd.<br>**1968**: airborne spectrometer and VLF surveys.<br>**1970**: airborne/ground EM and mag surveys. | 400' x 4'–5' at 0.94 oz/t Au, 5.23 oz/t Ag ***1946***<br>(Ont SMDR 000503; MRC 2, p 69, 1957) | Drilling indicated that grade dropped with depth. Vein shape and gold content appeared to be erratic. |
| ONT. 577 | SETTING NET LAKE<br>Caspian Res L (in 1981)<br>53 C/13<br>52°49'25" 93°34'50" | A granitic stock is mineralized over a length of 8,000' and a width of up to 1,500'. Mo and py occur in veins in porphyritic granodiorite and qtz monzonite at the north end of stock.Some copper is disseminated between the veins. | **1968–69**: undisclosed amount of dd.<br>**1977–78**: line cutting, geol mapping, IP, dd. | Dd–ind: 100,000,000 at 0.09% $MoS_2$ to 600'<br>***1969***<br>(NM 23/03/78) | |
| ONT. 578 | BORLAND LAKE<br>Massive Resources Ltd<br>53 D/16<br>52°56'08" 94°06'30" | Gal in qtz–rich lenses in biotite paragneiss. | **1946–47**: dd.<br>**1961–69**: trenching, EM, geol surveys, dd.<br>**1984–87**: geoph, dd. | Prob: 502,412 at 8.09 oz/t Ag, 0.02 oz/t Au<br>***1987***<br>(Massive Res, Prel Prospectus, 6/08/87). | Zone 4'–25' wide, 1,000' long and is up to 250' deep. |
| ONT. 579 | LINGMAN LAKE<br>Twin GML<br>53 F/15<br>53°52'00" 92°53'10" | Gold occurs within four shear zones in mafic metavolcanics cut by qtz porphyry. Silicification, some qtz–carbonate with po, py, asp, cp. Widths of 5'–6'. | **1945–49**: dd, 415' shaft, 3 levels, u/g dd, drifting, crosscutting, raising.<br>**1962**: limited surface work.<br>**1973–74**: feasibility study, dd.<br>**1987-89**: dd, geoph. | 1,700,000 at 0.24 oz/t Au<br>(NM 10/10/88) | The conclusion of the feasibility study was that the deposit was economic at a rate of 300 tpd. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| ONT. 580 | BIG TROUT LAKE<br>Inco Ltd.<br>53 H/12<br>53°45'00" 89°55'00" | Diss and layered chromite and sulphs in Archean ultramafic rocks or serpentinite. | **1973-75**: dd, geoph discovery. | Large possible $Cr_2O_3$ tonnages. "Forester Res Inc." | One hole cut 12% $Cr_2O_3$ across 20'. Three sections drilled in a length of 6 to 8 miles. Forester Resources has interest in the deposit. Dd by Silver Lake Res in 1985 intersected platinum group metals on adjoining property. Further dd in 1987–89 by International Platinum Corp in a joint venture in the Degussa AG and Jenkin Holdings (Canada) Ltd. |

# MANITOBA

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 1 | LUCY NO 1<br>Tantalum Mng Corp<br>Can L<br>52 E/11<br>49°38.96′ 95°28.37′ | 19 m spodumene pegmatite dyke intruding Archean metavolcanics. | **1943–57**: staking, trenching, dd, optioned by Whiteshell Lithium ML in 1957. | Ind: 250,000 at 1.75% $Li_2O$ *c* ***1956***<br>(NM 18/05/61) |  |
| MAN. 2 | SUNBEAM & WAVERLEY<br>Whiteshell Ventures L<br>52E/11<br>49°44.1′ 95°15.4′<br>(Sunbeam shaft) | The Sunbeam deposit consists of a silicified, sericitized propylitized and slightly carbonatized qtz monzonite breccia pipe. Free gold with py, po, minor asp, sph, gal, tennantite, cp.<br>The Waverley is sheared qtz monzonite. The shears are from 2 m to 8 m wide and have multiple Au– and sulphide–bearing qtz veinlets up to 1 cm in width. | **1912–23**: staking, stripping, pitting, sampling.<br>**1928–43**: sampling, dd; on Sunbeam by end of 1939 incline shaft (62°) to 438′ down dip, 4 levels; small shipment in 1936 (4,693 tons at 0.17 oz/t Au and a little Ag).<br>**1944–46**: work on Waverley incl dd, shaft to 500:, 3 levels and drifting 1,250′ towards Sunbeam.<br>**1973–77**: limited dd, geoph.<br>**1980–82**: surface work preparing for o/p operation.<br>**1985**: shaft dewatering and u/g expl. | Ind: 550,650 at 0.293 oz/t Au (undil) ***1946***<br>(NM 20/02/75)<br>***or*** developed: 110,000 at 0.256 oz/t Au<br>(Man ES 80–1)<br>***or*** Sunbeam: 132,500 at 0.25 oz/t Au proven<br>***1987 ?***<br>(NM 5/10/87) | Deposit 3 km SW of West Hawk Lake; ind tonnage figure includes Sunbeam "pipe" and surrounding veins. |
| MAN. 3 | CHROME GROUP<br>Olive Zeemel<br>52 L/5<br>50°27.4′ 95°33.6′ | Chromite occurs as 32 stratiform igneous layers (0.1 cm–100 cm thick and continuous over 1 km strike length) hosted by serpentinized peridotite of the Archean Bird River sill. | **1942**: staking, sampling, trenching, drilling, bulk sampling, metallurgical tests.<br>**1958**: dd.<br>**1981–83**: Dynamic Expl L (option) jt venture dev agreement with Combustion Engineering Superheater L; mine and mill and market studies.<br>**1985–88**: geol, sampling by GSC, metallurgical and feasibility studies by CANMET. | Meas & ind:<br>2 086 928 mt at 18.2% $Cr_2O_3$ to 198 m ***plus*** inf:<br>1 121 625 mt at 18.2% $Cr_2O_3$ to 305 m<br>***1942***<br>(Man OF 82-1, 1982) | Cr:Fe ratio is low (varies from 1.13:1 to 1.2:1). Cross–faulting of the chromite layers could cause problems in mining. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 4 | ORE FAULT<br>241118 Man. Ltd.<br>52 L/5<br>50°28.6′ 95°30.5′ | Lens of massive po, also py, pn, sph, cp, violarite and smythite in sill-like bodies of gabbro and ultramafic rocks (Bird River Sill) intrusive into the Bird River Greenstone Belt. | **1923–48**: staking, some work.<br>**1953–56**: optioning, dd.<br>**1968–71**: mag and EM, dd. | 1,640,000 at 0.48% Ni, some Cu to 400′ ***1972***<br>(Bird River MCL, Prospectus 1972) | Possibility of 0.2% Cu. |
| MAN. 5 | PAGE<br>Hudson Bay Exploration and Development Co. Ltd.<br>52 L/5<br>50°29.1′ 95°30.8′ | Chromite and chromite-bearing peridotite occur as layers in a 2,500′ main band, with average width of 6.1′, near centre of Bird River sill. Similar to Chrome Group. | **1937–43**: staking, channel sampling, 1/2 ton sample to Canmet; option by HBED in 1942, dd, metallurgical testing.<br>**1951**: geol mapping by J F Davies.<br>**1954**: dd, horizontal loop geoph.<br>**1967**: Man Chromium L (subsidiary of HBM&S) rechecked EM surveys, dd.<br>**1970**: geol mapping by D L Trueman. | Dd–ind: 1 583 186 mt at 25.2% $Cr_2O_3$ undil to 99 m ***plus*** inf: 4 025 610 m at 25.2% $Cr_2O_3$ undil up to 305 m<br>***1943***<br>(Man OFR OF 82–1, 1982) | Deposit 10 km E of Oiseau Lake. |
| MAN. 6 | BIRD LAKE<br>Maskwa Nickel Chrome ML<br>52 L/6<br>50°28.0′ 95°23.0′ | Chromite bands in peridotite within the Archean Bird River Sill intrusive between metavolcanics and metasediments of the Rice Lake Group. (10 bands to 2′ wide grading up to 25% $Cr_2O_3$). | **1921–22**: staking, pitting.<br>**1942–43**: mag survey, dd. | Meas: 4 497 453 mt to 61 m<br>ind: 1 333 389 mt to 61 m<br>inf: 1 166 1686 mt to 183 m, all at 7% $Cr_2O_3$<br>***1982***<br>(Man OFR OF 82-1, 1982) | Deposit lies just W of Oiseau Lake and 27 km ENE of Lac Du Bonnet; the tonnage and grade figures are approximate. Very poorly exposed on surface. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 7 | BUCK-COE- PEGLI<br>Lithium Corp Can L<br>52 L/6<br>50°25.4' 95°23.5' | Series of pegmatite dykes in Archean metavolcanics of the Rice Lake Gp. The dykes are well zoned and contain lithium, mica, spodumene, amblygonite, some tourmaline, beryl and cassiterite. | **1926–40**: staking, trenching, pitting, small amount quarried.<br>**1955–56**: dd outlined tonnage. | Ind: 810 000 at 2.13% $Li_2O$ *c* ***1956***<br>(NM 03/08/61) | Idle since 1960; renewed lease in 1968. |
| MAN. 8 | MASKWA WEST<br>Falconbridge L<br>52 L/6<br>50°28' 95°27' | Disseminated marcasite, py, violarite, pn, po, cp, in matrix of talc, carbonate, chlorite, and serpentine mnrls in the basal metaperidotite of the Bird River sill. | **1974**: discovered by dd.<br>**1975–76**: mng of 400,000 at 1.11% Ni, 0.23% Cu ceased in June 1976. | Ind: 900,000 at 1.34% Ni, 0.23% Cu, under the o/p<br>***1976***<br>(NM 15/07/76)<br>***plus*** stored tailings 702,000t at 0.65% $Ta_2O_5$ | The Maskwa o/p is located about 0.8 k m from the Dumbarton mine shaft. At the time of closing in 1976 the tonnage under the o/p was not considered economic. |
| MAN. 9 | BON (DIANA-GEM)<br>Canhorn Mining Corp.<br>52 L/11<br>50°42.6' 95°10.0' | Four shear–related Au–bearing vein systems in pillowed andesite, basalt, and gabbro of the Archean Rice Lake greenstone belt. Calcite–qtz stringers and veins contain gold with chlorite streaks and minor py, po, cp, gal. | **1926–28**: staking, expl work discovered Au–bearing veins.<br>**1928–38**: 775' shaft, 6 levels u/g dd, 50 t/d mill, prod.<br>**1967–68**: trenching, tailings sampled.<br>**1974–76**: dd, mag, VLF–EM survey; tailings sampled. | Tailings: 30–50,000 at 0.124 oz/t Au ***1968 or*** max 20,000 tons at 0.165 oz/t Au ***1976***<br>(WM 20/01/77) | Free Au in dump. |
| MAN. 10 | EAGLE (CAT LAKE, NEW MANITOBA)<br>Eldorado GM Inc<br>52 L/11<br>50°36.2' 95°28.9' | Cp, pn, po disseminated through a small gabbro plug intruding into Archean Rice Lake Gp. | **1943**: discovery,trenching, 4 shallow ddhs.<br>**1956**: shaft to 632', 4 L's.<br>**1971–72**: surface expl and dd. | 645,800 at 0.58% Cu, 0.24% Ni ***1972***<br>(R A Crouse 21/11/72 ***in*** Merger Brochure 29/01/73, Fundy Chem Corp L et al) | Deposit lies SW of Cat Lake and 16 km NW of Oiseau Lake. In 1957, a concentrator was 85% completed when operations were suspended due to decrease in world nickel prices. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 11 | EAGLE NO 1<br>Tantalum Mng Corp of Can L<br>52 L/11<br>50°37.0′ 95°28.2′ | Ten or more spodumene–bearing pegmatite dykes and lenses intruded into the Lamprey Falls metavolcanics and the Inconnu granite/qtz monzonite. | **1943–47**: staking, geol and mag surveys, dd, trenching.<br>**1954**: lease assigned to Lithium Corp of America, Inc.<br>**1977**: lease cancelled, not open to staking. | Ind: 600,000 at 1.4% $Li_2O$ to 200′ ***1947***<br>(NM 11/12/47) | Structural conditions suggest additional tonnages at depth. |
| MAN. 12 | EUCLID LAKE<br>Olive Zeemel<br>52 L/11<br>50°34.3′ 95°21.6′ | Stratiform chromite as stringers, ribbons and bands within and near the top of a peridotite layer within the lower portion of the Archean Bird River sill. Stratiform zone comprising two chromite bands (5′–6′ and 6′–7′) separated by 6′–7′ of chromiferous peridotite. | **1942–43**: discovery, dd.<br>**1951–52**: mag survey, dd, some metallurgical work.<br>**1981–83**: Dynamic Expl L (option), jt venture dev agreement with Combustion Engineering Superheater L; staking, geoph, mine and mill feasibility and market studies. | ***(i) Main***: meas & ind: 9 082 800 mt at 4.57% $Cr_2O_3$ to 244 m ***plus*** inf: 4 541 400 mt at 4.57% $Cr_2O_3$ (244–366 m)<br>***(ii) West:*** meas & ind: 252 355 mt at 8.15% $Cr_2O_3$ to 122 m<br>**1982**<br>(Man OFR OF 82–1, 1982) | This tonnage potential based on dd. Cr:Fe ratio is low. May be suitable as a ferrochrome product. Considerable tonnage available to o/p mng. Renewed interest in Cr as strategic metal with new metallurgical method of treating low grade Cr mineralization. Stainless steel mine/mill feasible at property, but lacked markets. Dynamic Mng not prepared to make major expenditures to retain subeconomic deposit so dropped option in 1985, but retained adjacent cl blocks. |
| MAN. 13 | IRGON<br>Lithium Corp of Can L<br>52 L/11<br>50°36.7′ 95°25.9′ | Large spodumene–rich pegmatite (>400 m in length x 3 to 18 m wide) consisting of alternating bands of qtz + spodumene and qtz + feldspar + muscovite intrusive into the Archean Lamprey Falls fm. | **1926, 1937–38**: staking, lease acquired by Lithium Corp.<br>**1956–58**: dd, shaft to 241′ crosscuts and drift on 200′ level. | Dd–ind: 1,203,500 at 1.51% $Li_2O$ to 600′ ***1957***<br>(CMH 1958) | Deposit lies N of Cat Lake, about 16 km NW of Oiseau (Bird) Lake. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 14 | MAYVILLE<br>Maskwa Nickel Chrome ML (62% owned by Falconbridge)<br>52 L/12<br>50°38.1' 95°36.8' | Sulphides (po, pn, cp) and titaniferous magnetite disseminated in mafic metavolcanics and ultramafic rocks on the north limb of the Archean Bird River sill. | **1917–37**: staking, sampling, dd, geol and geoph work.<br>**1951–56**: geoph survey (EM), dd.<br>**1965–66**: airborne mag survey, lease renewed for 21 years. | Ind: 300,000 at 2% + Cu–Ni, plus Au and Ag values ***1935*** (Winnipeg Free Press 23/11/35) | Deposit lies 5.5 km NNE of Maskwa Lake and 15 mi NE of Lac Du Bonnet. |
| MAN. 15 | SPOT (DONNER)<br>Tantalum Mng Corp of Can L<br>52 L/12<br>50°36.8' 95°34.9' | Spodumene distributed throughout qtz–albite pegmatite dykes cutting Lamprey Falls fm metavolcanics. | **1943–56**: staking, trenching, stripping, geol survey, dd. | ***(i) Main dyke***: ind 2,037,000 at 1.302% $Li_2O$ to 825'<br>***(ii) Northwest dyke***: ind 665,323 at 1.245% $Li_2O$ to 450' ***1955*** (Winnipeg Free Press 24/09/55; Man OFR 77/2, p 2) | The two dykes have an additional 1.2 million tons inferred to the 1,000' level. The low iron content of the spodumene makes it potentially valuable for glass making and ceramics. |
| MAN. 16 | GOLD LAKE<br>Gold Lake Res L<br>52 L/13<br>50°58.3' 95°38.8' | Gold associated with sulphides (mainly py) in lenses and pods of qtz in the Pilot–Smuggler shear that transects dacite and rhyolite of Archean Rice Lake Group. | **1914–20**: staking. 2 shafts (20' and 50'), pits, trenches.<br>**1934–36**: sampling, shaft to 350', drifting at 150 and 300'; dd to 450 and 600' in attempt to find ore zone that was lost at depth of 70'.<br>**1984**: surveying, dd. | 260' x 68" at 0.42 oz/t Au plus 140' of similar grade, both from surface sampling ***1984*** (NM 25/10/34) | U/G explorations revealed that the mineralized shoots at surface did not persist to any significant depth. |
| MAN. 17 | MOOSE<br>Augusta GML<br>52 L/13<br>50°57.4' 95°35.9' | Gold, cp, py in qtz vein in shear zone; the latter cutting dacite of the Rice Lake Group and intrusive tongues of qtz porphyry. | **1914–16**: staking, pitting, trenching, 2 shafts (25' and 100'), driting.<br>**1936–43**: sampling, dd.<br>**1961–62**: staking, dd.<br>**1980**: dd. | Ind: 18,500 at 1 oz/t Au ***1934*** (NM 10/05/34) | Deposit 5.5 km SE of Rice Lake; tonnage and grade figure based on 1914–16 work. Surface work and dd in 1974 by Scope Res L (includes Moose). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 18 | PACKSACK (MONTCALM)<br>Augusta GML<br>52 L/13<br>50°49.7′ 95°42.5′ | Gold, py, cp in lenticular, en échelon qtz veins in a shear zone cutting PC porphyritic dacite. | **1917**: staking<br>**1927–28**: pitting, sampling, trenching.<br>**1935–40**: dd, shaft to 525′, u/g dev.<br>**1985**: Reco Gold Mng working open cut and sinking shaft; small crusher installed. | Prob: 24,000 at 0.36 oz/t Au, and 5,000 at 0.17 oz/t Au to 435′ ***1937*** and 300,000 at 0.3 oz/t Au on the stockpile ***1979*** (Packsack ML 1937 AR; Winnipeg Free Press, 10/10/79) | In 1978, Mr Rylander of Victoria, B.C. started mng the stockpile created during u/g dev. Reco GML, under agreement with Augusta GML, stockpiled ore and operated small portable mill during summer of 1985. |
| MAN. 19 | RANGER<br>Canadian GML<br>52 L/13<br>50°59.43′ 95°38.70′ | Gold with py, ankerite, tourmaline in qtz veins in Archean rhyolite. | **1912**: staking<br>**c 1914**:: shaft, tr.<br>**c 1930**: dd.<br>**1949**: dd.<br>**1985**: geol, prospecting. | Poss: 1 787 mt at 13.7 g/t Au ***1981***<br>(New Forty–Four Mining Ltd. 1981 AR) |  |
| MAN. 20 | WOLF<br>Canadian GML<br>52 L/13<br>50°59.8′ 95°41.3′ | Au, Ag, cp, py, ankerite in a qtz–filled shear zone, up to 12.2 m wide, in Archean rhyolite of the Rice Lake Gp. | **1917**: staking.<br>**1920**: pitting and sampling.<br>**1949–59**: dd.<br>**1981**: mapping, prospecting, dd. | Prob: 2,995 at 0.3 oz/t Au<br>Poss: 24,380 at 0.30 oz/t Au<br>***1981***<br>(CMH 1985–86, p 333) | Property less 3.2 km SE of Bissett. |
| MAN. 21 | CRYDERMAN<br>Mid North Res L<br>52 L/14<br>50°58.7′ 95°23.4′ | Free Au and tellurides in cracks in qtz lenses within a shear zone in basalt of the Rice Lake Group. | **1925–36**: staking, shaft to 260′, drifting on 2 levels, dd, trenching, stripping, sampling; 373 oz Au produced in 1932.<br>**1959**: surface sampling.<br>**1982–83**: VLF–EM and mag surveys; prospecting, dd. | ***(i)*** 220′ x 25″ at 0.52 oz/t Au ***1931***<br>***(ii)*** 262′ x 3.3′ at 0.56 oz/t Au ***1959***<br>(NM 02/07/59) | Deposit lies 22.5 km ESE of Rice Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 22 | MACKETTA<br>Kangeld Res L<br>52 L/14<br>50°55.5' 95°23.2' | Gold, py, cp, sph scattered in short qtz lenses in shear zone that cuts across contact of PC metavolcanics and granodiorite. In 1940, the engineers suggested that the shear zone should contain better "ore" near the gabbro, 500' further out under Halfway Lake. | **1926–35**: staking.<br>**1938–39**: dd.<br>**c 1963–64**: mapping, sampling, mag and EM surveys.<br>**1973, 1979**: restaking.<br>**1978–81**: prospecting, trenching, mapping, sampling.<br>**1987–88**: dd. | 75,000 at 0.13 oz/t Au ***1987***<br>(International Platinum Corporation, 1987 AR) | International Platinum Corp. option in 1987. |
| MAN. 23 | OGAMA–ROCKLAND<br>Mid–North Res L<br>52 L/14<br>50°53.0' 95°22.9' | Gold in qtz veins in shear zones in qtz diorite. | **1915**: staking.<br>**1924**: expl.<br>**1940**: sampling, dd, shaft.<br>**1942; 48–51**: prod. about 50,000 ozs Au.<br>**1968**: dd.<br>**1973**: dd.<br>**1979–80**: EM surveys.<br>**1981–84**: geol, geoph, geochem, dd, bulk sampling.<br>**1987**: dd. | No. 4 vein: 33,227 pot at 0.34 oz/t Au ***1987***<br>(VSE SMF 62/87) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 24 | SOLO-ORO GRANDE<br>H.M. Linnell<br>52 L/14<br>50°53.1' 95°15.0' | Au assoc with dissem grains of sulphide (py, cp, po, sph) in qtz lenses and stringers in a shear zone of chlorite schist derived from meta-gabbro sill which intrudes basalt flows and tuffaceous sediments of the Rice Lake Gp. | **1919**: staking.<br>**1923-28**: stripping, dd, 2 shafts.<br>**1932-34**: shafts at 161 m and 38 m depths, 3 levels; small mill in operation.<br>**1936-40**: u/g work, one stope mined out, milling 1938-40; assaying and dd on new surface showing.<br>**1962**: dd.<br>**1978-83**: restaking; ***cash payments in lieu of work.***<br>**1984**: sampling tailings sites; VLF-EM and mag surveys, soil sampling, prospecting.<br>**1988**: geoph. | 32,291 at 0.30 oz/t Au est to remain between 500' level and surface **1985 *includes***<br>***(i)*** 49.41 m x 1.31 m at 14.07 g/mt Au (0.41 oz/t) on 69 m level ***1936***<br>***(ii)*** 34 m x 1.1 m at 10.33 g/mt Au (0.30 oz/t) ***1936*** (Man Inv File, Ref 52/L14, NE, NW, Au 7; Northwest Prospector, Winter/85) | Located 0.4 km W of Beresford Lake; about 9 000 mt of ore mined in 1937 from stope between 2nd and 3rd levels demonstrated a shoot 92 m x 0.9 m at 13.7 g/mt to 16.65 g/mt Au (0.4 to 0.49 oz/t). (NW 10/08/39) |
| MAN. 25 | JEEP MINE<br>Augusta GML<br>(owned by Gold Lake Ms Inc)<br>52 M/3<br>51°02.6' 95°29.6' | Several lenticular qtz veins in parallel shear zones in mafic to intermediate plutonic host rocks. Gold is associated with asp, also in native form. Veins carry ome py, po, asp, cp. | **1948–50**: 591' shaft, 4 Ls.<br>**1973**: dd.<br>**1980–83**: acquired by Gold Lake Ms Inc; feasibility study re 180 mt/d mill; prospecting, mag and EM surveys. | N/A Au | Production of some 18,000 t grading 0.82 oz/t from 1948 to 1950; trucked to San Antonio mill.<br>In 1983 announced plans to design dd program to verify continuity to 450 m depth. |
| MAN. 26 | EVA<br>J S Hendrickson<br>52 M/4<br>51°01.1' 95°46.2' | Au–bearing qtz–filled shear (0.92 m av width) in granite. | **1919**: staking.<br>**1921**: shaft to 18 m.<br>**1976**: restaking.<br>**1979–81**: expl work; mng feasibility study. | 15 964 mt mineable at 6.17 g/mt ***1981*** (New Forty–four Ms L 1981 AR) | Property 6 km W of Rice Lake; study showed deposit to be sub–economic. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 27 | LULEO (POUNDMAKER)<br>Calverley Prospecting<br>L<br>52 M/4<br>51°05.2' 95°45.3' | Gold–qtz vein along one of several extensive shear zones in qtz–diorite pluton; Au zone 6.1 to 18.3 m wide x 1 220 m long. | **1915–25**: staking, small mill, shaft to 525', drifting, x–cutting.<br>**1928**: dewatered, dd, surface work, EM.<br>**1938**: hydro–electric 100 t/d mill, dd to 717'.<br>**1980–84**: 1 400 mt previously mined material shipped to HBM&S smelter; impact crusher installed on property. | N/A Au | Luleo shaft located 1.07 km W of Little Beaver Lake. Au ore at $10/ton milled in 1923. |
| MAN. 28 | RITA NO 1<br>(INDEPENDENCE)<br>Carl D. Huston<br>52 M/4<br>51°00.3' 95°38.2' | Gold and py in lenses and stringers of qtz along a shear and fracture zone. Bedrock is rhyolite lava with dykes of porphyritic andesite. | **1934–37**: staking, pitting, trenching, 30' shaft, dd.<br>**1957–64**: restaking, dd.<br>**1972–73**: restaking, dd.<br>**1974**: surface work and dd by Scope Res on group (includes Independence).<br>**1981, 1984**: restaking; VLF–EM survey. | 2,850 at 0.74 oz/t Au<br>*c 1938*<br>(GSC Mem 210, p 62, 1938) | N of Independence Lake; structure containing this shallow lens traced 2,200' on surface, and to a depth of 680' by drilling. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 29 | SAN ANTONIO AND FORTY-FOUR<br>Rea Gold Corporation<br>52 M/4<br>51°01.4' 95°40.7' | Au–bearing qtz–carb veins and stockworks in shear and fracture zones, dipping 48° to developed depth of 5,200' within "diabase sill" intruding tuffaceous rocks of Rice Lake Gp. Wallrocks are albitized, carbonatized and pyritized. | **1911**: discovery.<br>**1926–68: San Antonio**: 4 shafts, 4 winzes, deepest level (26th) at 3,864', 150 t/d mill expanded to 550 t/d; **Forty–four**: the 5th winze ("D" internal shaft) from 26th L to 5,070' opened new Au zone in 1960. Fire destroyed hoist room in 1968, mine closed.<br>**1980–81**: New Forty–four ML and Brinco jt venture, feasibility study; new 500 t/d concentrator installed.<br>**1982–83**: in production (Au and Ag recovered); dewatered "D" shaft, u/g dd on "97" stockwork vein at depth.<br>**1984–86**: u/g geol mapping, sampling and dd, bulk sample; reserves increased at "D" shaft between 26 and 36 levels; geol, geoph and geochem surveys. | Mineable: 1,200,000 at 0.222 oz/t Au (below 26 level)<br>***plus*** 301,000 at 0.192 (above 26 level)<br>(NM 20/03/89) |  |
| MAN. 30 | SANNORM<br>Hugh Wynne<br>52 M/4<br>51°01.6' 95°37.5' | Gold–bearing veins in and beside mafic rocks and felsic tuffs that cross the San Antonio and Forty–four properties. | **1934–35**: trenching, pitting, dd.<br>**1944–49**: 21 year lease, mag survey, dd, shaft collared and mng plant installed only.<br>**1961, 1965**: ground geoph survey, 21 year lease (cancelled in 1971).<br>**1972–79**: restaked, dd.<br>**1988**: dd. | 200,000 at 0.122 oz/t Au to 500' ***1989***<br>(NM 10/04/89) | Bakra Resources Ltd. option. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 31 | WINGOLD<br>Rae Gold Corp<br>52 M/4<br>51°01.5' 95°39.6'<br>(Gold Field shaft) | Au– and Ag–bearing qtz veins containing tourmaline in earlier high temperature phase and carbonate in a later phase. Veins occur in shear zones in tuff of Bidou Lake Subgroup. The Gold Fields shear zone is up to 15.3 m wide and 229 m deep. | **1913–15**: several shafts sunk to depths of 12 m to 31 m.<br>**1934–36**: u/g work, Gold Fields shaft extended to 91 m, 3 levels; sampling, dd.<br>**1939**: sampling. | 10 885 mt at $8.82/mt Au *or* 6 535 mt at 13.95 g/mt Au plus 6 349 mt at 7.20 g/mt Au<br>***1935***<br>(Man Inv File 52 M/4 SE Au 15) |  |
| MAN. 32 | ISLAND LAKE (HIGH ROCK ISLAND)<br>Wyndmar Development Corp.<br>53 E/15<br>53°45.8' 94°30.7' | Gold–sulphide–bearing qtz veins up to 1.5 m wide in zones of silicification, pyritization and carbonatization. Sulphs consist mainly of py, po and minor gal, asp, sph. Hosted by metaseds of Archean Hayes River–Island Lake Groups. | **1932**: staking.<br>**1934**: tr, pits, sampling.<br>**1937**: shaft, u/g work.<br>**1950–51**: dd, sampling.<br>**1970–74**: sampling.<br>**1984–89**: stripping, tr, sampling, geoph, dd, u/g work, pilot mill. | Proven and dd–ind: 500,000 at 0.3 oz/t Au<br>inf: 1,500,000 at 0.3 oz/t Au<br>***1988***<br>(CMH 1989–90, p 476) |  |
| MAN. 33 | LINKLATER ISLAND<br>Inco L<br>53 E/15<br>53°56.1' 94°45.7' | A sulphide zone (10,000' x 200' x 2,000') in a serpentinized peridotite sill. Millerite, pn, nickeliferous po, py, cp and mag disseminated in the zone. | **1952–61**: staking, geoph survey, dd; claims leased in 1961. | N/A Ni–Cu | Linklater Island is in Island Lake; a body of low–grade Ni–Cu was outlined by 42,000' dd, by Inco in 1956–60 (Man Geol & Min Res of Man, p 55, 1962). |
| MAN. 34 | LITTLE STULL LAKE<br>Westmin Resources Ltd.<br>53 K/10<br>54°33'15" 92°42'00" | Gold–bearing zones in volcanic rocks and iron formation. Zones along a 5.5 km length. | **1985–89**: geol, geoph, geochem, dd. | 1,000,000 at 0.3 oz/t Au<br>***1989***<br>(NM 4/09/89) | 29 holes intersected gold grades greater than 8 g/mt. Tanqueray Resources 35% interest. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | | REMARKS |
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| MAN. 35 | JOWSEY ISLAND<br>W. Bruce Dunlop L<br>53 L/9<br>54°39.4' 94°17.1' | Two parallel qtz veins in qtz-feldspar porphyry dyke. Veins are grey to black qtz with dis py, asp, cp, po traces of VG. Sequence is in metavolcanics of the Archean Hayes River Gp. | **1932–36**: discovery, trenching, dd, shaft to 233' with 2 levels, drifting. | ***(i)*** 300' x 4.5' at 0.36 oz/t Au to 90' ***1934***<br>***(ii)*** 113' x 5.5' at 0.49 oz/t Au on 100' level<br>***(iii)*** 74' x 6.4' at 0.24 oz/t Au on 200' level ***1936***<br>(Man 8th AR, 1936, pp 83–84) | | Jowsey Island is in Gods Lake. |
| MAN. 36 | GODSLITH (BIL)<br>W Bruce Dunlop L<br>53 L/16<br>54°51.7' 94°10.4' | Spodumene in pegmatites. | **1958–60**: discovery Carl Sherman, 2,870 m dd by Inco. | N/A | Li | Deposit of moderate size with moderate grade of Li, Be on the N shore of Gods Lake (Man, Geol & Min Res of Manitoba, p 57, 1962). |
| MAN. 37 | FOX GROUP<br>Golden Hat Res Inc<br>62 P/1<br>51°09.3' 96°03.6' | Co, py, po in peridotite. | **1924**: staking, pitting, trenching.<br>**1938**: EM, dd, pitting, trenching. | N/A | Ni | Ni–bearing zone is 3.2 km SE of E end of English Lake and 8 km ENE of Currie Landing on Prov Rd 304. |
| MAN. 38 | LOTUS<br>Walter N Baker<br>62 P/1<br>51°09.0' 96°06.5' | Free Au, py, cp, tetradymite (Bi–Se telluride) in E–dipping qtz–filled shear zone on nose of E–plunging syncline in gneissic rocks of the Archean Rice Lake Gp. | **1924–35**: staking, trenching, stripping, pitting, sampling, dd.<br>**1946–54**: trenching.<br>**1978**: restaking.<br>**1982**: ore milled at San Antonio mine. | 60,000 at 0.30 g/t Au in two shoots, open at depth ***1983***<br>(ASE FS 83–17, 31/08/83) | | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 39 | HYERS ISLAND (LYNX)<br>Noranda Expl CL<br>(in 1986 ?)<br>63 I/16<br>54°45.8' 96°01.2' | Qtz–carbonate–sulphides in pipe–like body which plunges 35–50° W to a depth of 200' where it has been faulted off. This pipe–like body is situated near contact of Archean Oxford Lake Gp qtz–sericite schist and a diabase dyke. Massive to disseminated py, cp, plus minor tetrahedrite and bornite are present. | **1934–74**: staking, stripping, trenching, mag, EM and geol surveys, dd. | 317 450 mt at 2.5% Cu ***1984***<br>(Man ES, Cu and Zn in Man, p 23, 1986) | Hyers Island is located in Oxford Lake. |
| MAN. 40 | MINAGO RIVER (RESERVATION 34)<br>Black Hawk Mining Inc.<br>63 J/3<br>54°05.3' 99°11.2' | Under 400' overburden and Paleozoic rocks. Several mineralized zones in serpentinite. Disseminated pn and millerite with minor violarite and heazelwoodite. | **1966-69**: airborne geophysics, ground EM, mag, IP, dd.<br>**1969–70**: discovery of deposit, dd.<br>**1972**: 21 year lease issued. | Dd–ind: 7,300,000 at 1.33% Ni (1% cutoff) to depth of 1,200' ***1975***<br>(CIM Bull, Sept 1975, p 77) | Extension of Manitoba Nickel Belt under Paleozoic cover; deposit 96 km SW of Wabowden. Open at depth, not fully explored along strike. |
| MAN. 41 | COPPER–MAN<br>Falconbridge L<br>63 J/12<br>54°39.0' 99°52.4' | Sulphides (cp, py, sph) associated with qtz in andesite of Archean Amisk Group; in schist zone at contact with basaltic tuffs; and in hanging wall of diorite dyke. | **1926–31**: staking, trenching, geoph survey, dd.<br>**1948–70**: considerable dd, EM, mag.<br>**c 1985**: dd. | 221 308 mt at 2.63% Cu, 4.46% Zn ***1984***<br>(Man ES, Cu and Zn in Man, p 23, 1986) | Deposit is at SW end of Wekusko Lake. Deep drilling indicated good grade and width to 1,200'. Falcon Point Resources has interest. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 42 | APEX<br>Mid–North Res Ltd.<br>63 J/13<br>54°49.6' 99°48.3' | Large low–grade Au–bearing shoots in sheared and silicified granodiorite at intersection of fracture systems; mnrl'n includes asp up to 10% over narrow width; scheelite lenses (1.53 m x 7 cm to 9 cm) occur locally in qtz. | **1918–33**: discovery, staking, pitting, trenching, shallow shafts, sampling.<br>**1934–35**: dd.<br>**1940–43**: explored for tungsten, ultraviolet exam; trenching and pitting found lens of scheelite, shipment examined in Ottawa, dd.<br>**1944–46**: expl shifted to Au, dd, trenching, sampling.<br>**1980–81**: detailed mapping, sampling, dd. | Dd–ind: 400,000 at 0.07 oz/t Au<br>***1946***<br>(GCNL 08/12/83) | On peninsula in Wekusko Lake; o/p potential. |
| MAN. 43 | FERGUSON MINE<br>(MOSS 1)<br>Peter Dunlop<br>63 J/13<br>54°57.4' 99°51.2' | Gold and scheelite in narrow qtz stringers in a zone 1,500' long x 20' wide within metavolcanics, and derived gneiss and schists. | **1916**: staking.<br>**1928–30**: staking, pitting, trenching, shaft 7' x 11' x 8'.<br>**1942–51**: trenching, stripping, blasting, sampling, "ore" broken, 15–ton mill installed but no prod recorded.<br>**1976**: restaked by W B Dunlop.<br>**1979, 1984**: acquired by Dawn ML and restaked by Peter Dunlop. | 6,000 at 1.5 oz/t Au on the dumps ***1951***<br>(NM 29/03/51) | The deposit is located on Herblet Lake, N of Wekusko Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 44 | FERRO MINE<br>Pro–Roc Res,<br>Dan Ziehlke<br>63 J/13<br>54°47.8' 99°42.1' | Gold in qtz–filled shear zones in basaltic–andesite of Missi Group along the axis of the Herb Lake syncline. The veins are lenticular and discontinuous. | **1923–33**: staking, sampling, stripping, trenching, open cut, prod from 10 ton mill, shaft to 40'.<br>**1939–64**: dip needle survey, dd another shaft to 543', 4 levels, small prod from 50–75 tpd mill.<br>**1973–74**: acquired by Crowduck Bay ML, shaft dewatered to 150', sporadic milling of ore from pit.<br>**1980–81**: u/g workings rehabilitated; channel and drill sludge sampling; and surface expl (geoph, geol, dd) by Norman ML<br>**1988–89**: dd, geoph. | Prov & prob: 73,000 at 0.39 oz/t Au<br>Poss: 11,000 at 0.34 oz/t Au<br>***c 1970s***<br>(Man Exploration Highlights, March 1989) | Pierce Mountain Resources Ltd. has 49% interest. |
| MAN. 45 | GOLD REEF<br>Jim Corman<br>63 J/13<br>54°50.5' 99°44.1' | Spodumene, minor beryl in pegmatite dykes. | **1931–42**: discovery, staking, stripping, dd; minor scheelite found with ultraviolet lamp.<br>**1976**: Sherritt applied for leases. | Ind: 225,000 at 1.2% $Li_2O$ ***1942***<br>(Man GP 2/73, p 30, 1973) | Sherritt Gordon ML reported that spodumene could be produced commercially by sink and float concentration (GSC P 55–26, pp 3–4). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 46 | LAGUNA MINE<br>Mid–North Resources Ltd.<br>63 J/13<br>54°47.2' 99°46.1' | Gold in asp–rich shear hosted quartz vein (0.8 m to 1.83 m wide) in Missi Group quartz feldspar porphyry. | **1914–26**: staking, stripping, trenching, two shafts (main shaft to 423' with 2 levels), 30 tpd steam–driven mill. Gold recovered during 6 of these years.<br>**1934–40**: shipment to Ottawa for testing; a new shaft (Laguna) to 1,250', with at least 7 levels, new mill (90 tpd at capacity), u/g dd: (produced from 1936 to 1940 (Au and Ag).<br>**1968**: restaking by W B Kobar.<br>**1977–78**: trenching, sampling.<br>**1981, 1984**: dd, geoph, geol mapping, and sampling. | 45,000 at unstated grade Au (broken material on surface), 83,000 at 0.4 to 0.5 oz/t Au, u/g ***1973***<br>(NM 10/01/74) | The mine is situated near the E shore of Wekusko Lake. The u/g tonnage figure is based on old records and another analysis after dewatering in 1973; Crowduck Bay ML sampled the stockpile, but Au values lower than anticipated. |
| MAN. 47 | LINDA McKAYSEFF<br>Minnova Inc.<br>63 J/13<br>54°50'00" 99°56'00" | Volcanogenic ms sulphs in Amisk Gp subaqueous volcanic rocks. | N/A | 13,000,000 at 0.3% Cu, 0.8% Zn, 0.3 oz/t Ag, 0.05 oz/t Au ***1987***<br>(NM 3/10/88) | International Thunderwood Explorations Ltd. has interest. |
| MAN. 48 | LIT (GREEN BAY)<br>J A Syme<br>63 J/13<br>54°51.3' 99°38.5' | Spodumene, some beryl, in zoned pegmatite dykes that cut Aphebian greenstones near faults (some columbite–tantalite noted in thin sections). | **1953–57**: staking, bulk sample sent to Ottawa; dd; numerous tonnage estimates. | 2,000,000 at 1.4% $Li_2O$ in dyke No 1<br>(Green Bay Mng & Expl L, 1956, AR) | The main dyke was investigated to a depth of 1,000' by dd. There are at least 7 zoned pegmatite dykes on the property. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 49 | McCAFFERTY<br>H L Thomson<br>63 J/13<br>54°49.93′ 99°41.00′ | Arsenopyrite–rich, shear hosted quartz vein system cutting Missi Gp dacite and qtz–phyric dykes. Sparse py, asp, cp and gal in the qtz. Free gold found along fractures in qtz and in the porphyry. | **1915–28**: staking, trenching.<br>**c 1917**: No 1 shaft sunk 27′.<br>**1930**: No 2 shaft sunk 90′.<br>**1930s**: trenching, sampling, dd.<br>**1981**: sampling at 90′ L, No 2 shaft. | 1934: dd–ind: 20,000 at 0.199 oz/t Au across 4.5′ for 450′ ***1934***<br>(Bailor GML, Apr 1935 clipping in MPS files) | Property is 1.5 km NNE of McCafferty Lake.<br>Channel sampling in 1981 gave average 0.3 oz/t Au over average width of 3.9′.<br>(NM 12/03/81). |
| MAN. 50 | OSBORNE LAKE<br>Hudson Bay Mng and Smg CL<br>63 J/13<br>54°57.8′ 99°43.7′ | Volcanogenic ms sulphs in highly metamorphosed Amisk Gp volcanic rocks. Sulph body (900′ x 20′ plunges 30° SE for 3,600′) contains py, po, asp, cp, sph, minor cobaltite, galena, some Au and Ag. | **1927–29**: staking, trenching, dd.<br>**1948–53**: staking, mag and EM surveys, dd.<br>**1954–55**: acquired by HBM&S; dd and geoph outlined tonnage.<br>**1961–67**: service shaft to 2,243′, levels at 150′ intervals; prod shaft to 2,402′.<br>**1968–83**: in prod; shaft extended to 2,952′; u/g dd.<br>**1984**: mine permanently closed. | 528 054 mt at 2.45% Cu, 1.28% Zn ***1984***<br>(Man ES, Cu and Zn in Man, p 12, 1986) | Located 1.2 km NNW of N end of Osborne Lake, 21 km NE of Snow Lake; during the 1968–83 period mined 3,094,700 at 3.14% Cu and 1.5% Zn; dd from 2,750′ level in 1978 and limited tonnage below bottom level. |
| MAN. 51 | RICE ISLAND<br>Inco L<br>63 J/13<br>54°49′ 99°55.2′ | Po, cp, pn as lenses and veinlets in PC qtz diorite and some sulphides in meta-sediments near the contact. | **1917–29**: discovery, staking, trenching, dd.<br>**1949**: ground mag and EM, dd (24,825′).<br>**1962–74**: EM survey, dd. | N/A Cu-Ni | Rice Island is in Wekusko Lake; tonnage and grade unknown for Ni-Cu; also contains values in Zn, Ag and Au. |
| MAN. 52 | VIOLET<br>H L Thompson<br>63 J/13<br>54°51.01′ 99°42.72′ | Spodumene–bearing pegmatite dykes. | **1955–56**: staking, dd, bulk sample to Ottawa for testing.<br>**1969**: restaking, trenching. | Ind and inf: 5,869,000 at 1.205% $Li_2O$ to 1,000′ ***1956***<br>(NM 03/05 and 07/06/56) | Deposit at Crowduck Bay, Wekusko Lake; test on bulk sample in 1956 indicated that beneficiation by flotation possible. Might be under option to Starrex Mining Corp. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 53 | BUCKO AND BOWDEN LAKES (DISCOVERY)<br>Falconbridge Ltd.<br>63 J/15<br>54°52.8' 98°39.4'<br>(Bucko Shaft) | Disseminated to massive sulphides (po, pn, cp, py) occur in serpentinized peridotite of the Thompson Nickel Belt and also in the gneissic country rock. The Bowden Lake deposit consists of a large number of elongate lenticular dissem sulph bodies in ultramafic rocks. | **1958–76**: staking, airborne EM and mag, dd, metallurgical tests; uncompleted Bowden shaft to 347'; Bucko shaft to 1,117', crosscutting, drifting and u/g dd. | ***(i) Bucko***: 30,000,000 at 0.8% Ni to 2,000' incl an ind 1,742,500 at 2,28% Ni to 1,000' ***1972–76*** (FP Surv Ms 1976, p 171; NM 03/05/79; Canhorn Mng Corp prospectus 17/04/86)<br>***(ii) Discovery***: 2,000 T/VF at 0.89% Ni plus 1,030 T/VF at 1.36% Ni ***1962*** in three zones to at least 800' (W R Newman, 21/12/62 for National Malartic GML ***in*** Prospectus, 1962)<br>***(iii) Bowden***: ind: 96,934,000 at 0.627% Ni to at least 1,000' ***1976*** (Canhorn Mng Corp, prospectus 17/04/86) | Located in Wabowden area; fine–grained nature of mineralization has created problems in the prod of acceptable grade concentrate. Deposits contain low copper values (over 0.04%). At "Discovery", The NM (18/04/63) reported 5,000,000 at 1% Ni. |
| MAN. 54 | RESTING LAKE<br>Falconbridge Ltd.<br>63 J/15<br>54°49.0' 98°45.5' | Po–cp–pn millerite as needles and specks in large serpentinized peridotite body of the Thompson Nickel Belt. | **1958–71**: staking, mag, EM surveys, dd. | 100,000,000 at 0.25–0.30% Ni–Cu to 1,000' ***1971*** (D D Campbell 19/09/71 for LaRonge Mng L ***in*** VSE SMF 01/10/71) | Locally large volumes of rock are reported to exceed 0.40% Ni-Cu. |
| MAN. 55 | DYCE SIDING (SYLVIA ZONE)<br>Hudson Bay Expl and Dev CL<br>Manitoba Mineral Resources L.<br>63 K/8<br>54°24.4' 100°09.0' | Cu–Zn zone in PC host rocks beneath 225' of Paleozoic limestone. | **1972–77**: staking, ground geoph, dd; discovery made in 1977.<br>**1978–80**: ground EM, mag and dd. | ***(i)*** 3,500,000 at 0.65% Cu, 1.83% Zn.<br>***(ii)*** 800,000 at 2.38% Cu, 0.13% Zn ***1978***<br>***or*** (i)&(ii): 1,320,000 at 2.08% Cu, 1.6% Zn ***1980*** (Manitoba Mnrl Res L 1980–81 AR; HBM&S 1979 AR) | Property 5 km N of Dyce Siding where dd intersected mineralization over length of at least 2,400'; open to depth at 1,600' level; ground expl and dd by Hudson Bay Expl continues in the area. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 56 | FAREWELL LAKE (KOF ZONE)<br>Hudson Bay Expl and Dev CL<br>63 K/8<br>54°29.1' 100°02.8' | Massive sulphides (Kof Zone) in PC rhyolite tuff beneath 200' of Paleozoic limestone. | **1974–75**: discovery, staking, dd.<br>**1979–81**: dd, mag surveys. | Dd–ind: 283,000' at 2.83% Cu to 625' plus lower grade to 1,200'<br>***1974***<br>(Manitoba Mnrl Res L, 1980–81 AR) | Deposit is 10 km SE of Farewell Lake and 8 km N of Dyce Lake. |
| MAN. 57 | RAIL LAKE<br>Hudson Bay Mng and Smg CL<br>63 K/10<br>54°44.9' 100°35.5' | Sulphide deposit at edge of granitized sedimentary rocks near a body of pillowed Amisk andesite. | **1954–61**: staking, geoph, dd. | Ind: 325,000 at 3.0% Cu, 0.7% Zn to 1,000'<br>*c **1961***<br>(HBM&S 1970 AR; CMH 1978–79, p 137) | This deposit, located 6.5 km NW of Reed Lake, is open to depth; idle since 1961 when claims taken to lease (21 years). |
| MAN. 58 | REED LAKE<br>Hudson Bay Expl and Dev CL<br>63 K/10<br>54°38.2' 100°32.9' | Sulphide deposit in felsic volcanics beneath Reed Lake. The area is underlain by Amisk Group volcanics and related intrusives of the Flin Flon–Snow Lake Greenstone belt. | **1968–73**: CB 159 staked; discovered 1969 by dd an EM anomaly through ice on the lake; additional dd. | 1,500,000 at 2.09% Cu (diluted 10%) to 1,800', open at depth<br>(HBM&S 1974 AR, p 14) | Property 48 k m SW of Snow Lake; uneconomic under conditions prevailing in 1974. |
| MAN. 59 | WESTARM<br>Hudson Bay Mng and Smg CL<br>63 K/12<br>54°38.6' 101°50.2' | Volcanogenic ms sulph deposit in NW striking Aphebian Amisk Gp volcanogenic sediments. | **1949, 1953**: staking, mag survey.<br>**1968–73**: acquired by HBM&S; deposit discovered in 1973 by dd airborne EM conductor.<br>**1975–76**: shaft sunk to 1,904', 8 levels.<br>**1978–85**: in prod, closed Feb 1985. | 525 542 mt at 3.54% Cu, 1.8% Zn ***end 1984***<br>(Cu and Zn in Man, p 12, Man ES, 1986) | Located on the west arm of Schist Lake, 14.5 km S of Flin Flon; mined 1.05 million t at 3.34% Cu, 1.25% Zn during 1978–85 period. |
| MAN. 60 | ALBERTS LAKE (WALLY)<br>Granges Exploration Inc.<br>63 K/13<br>54°48'42" 101°33'18" | Gold–bearing qtz vein up to 1 m wide occurs in gabbro, qtz–feldspar porphyry and rhyolite of the Aphebian Flin Flon–Snow Lake Greenstone Belt. | **1984–86**: geol, geoph, dd. | 400,000 at 0.22 oz/t Au<br>***1988 ?***<br>(CMH 1988–89, p 211) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 61 | BIG ISLAND LAKE<br>Goldbrae Development Inc,<br>Westfield Minerals L<br>63 K/13<br>54°46'30" 101°42'00" | Lens of volcanogenic Zn–Cu ms sulphs in Amisk Gp basalt. | **1987–89**: tr, sampling, geochem, geoph, dd. | Geological reserve: 200,000 at grade unstated Cu–Zn ***1988***<br>(NM 6/03/89) | One hole intersected 1.72% Cu, 14.55% Zn, 0.09 oz/t Au, 1.71 oz/t Ag over 64.3'. Minnova Inc has option. |
| MAN. 62 | HONEYSUCKLE<br>Hudson Bay Expl and Dev CL<br>63 K/13<br>54°52.01' 101°47.70' | Au associated with asp and biotite in schist and less frequently in a qtz vein in a shear zone in PC greenstone. | **1927–36**: staking, trenching, sampling.<br>**1939**: dd, mill tests in Ottawa on bulk sample from pits.<br>**1945**: dd.<br>**1953**: acquired by Tartan Lake GML.<br>**1976**: lease cancelled. | 700' x 54" at $12.28/t Au ***1945***<br>(F Helen Paine, 11/07/45, written commun, *In* MPS Corp File, Tartan Lake GML) | Property near Tartan Lake about 11 km NNE of Flin Flon. Mill tests in 1939 indicated that Au was amenable to a cyanidization extraction process. The charter of Tartan Lake GML was dissolved in 1977. |
| MAN. 63 | PINEBAY<br>Pinebay ML<br>63 K/13<br>54°45.8' 101°37.3' | Sulphide zone under waters of Sourdough Bay contains cp, po with massive py in PC chlorite schist and volcanics. | **1967–74**: dd on EM anomaly, shaft to 700' and some u/g dev; feasibility study.<br>**1976–77**: expl with Manitoba Dept Mines, Resources.<br>**1982**: dd. | 1,500,000 at 1.3% Cu, ***1969***<br>***or*** 750,000 at 3% Cu above 500' ***1967***<br>***or*** 400,000 at 3.2% Cu ***1982***<br>(NM 17/08/67; Cerro Corp, 1969 AR; HBM&S Form 10–K, 31/10/82) | Sourdough Bay is on Lake Athapapuskow, about 19 km E of Flin Flon. |
| MAN. 64 | VAMP LAKE<br>Mingold Resources Inc<br>63 K/14<br>54°56.3' 101°10.0' | Py, po, some cp and sph generally disseminated, but locally massive when associated with bands of silicification and carbonatization through shear zones in basic lavas which have been altered to hornblende gneiss. | **1928**: original discovery, some surface work, dd.<br>**1951–73**: staking, geol mapping, geoph; optioned to Mng Corp of Can L in 1957 and to HBE&D in 1969, dd; acquired by Hudvam in 1973.<br>**1988**: dd, u/g work, decline. | Dd prov & prob, poss: 815,000 at 0.116 oz/t Au, 0.38 oz/t Ag, 1.34% Cu, 1.9% Zn ***1988***<br>(CMH 1989–90, p 319) | Property is 48 km ENE of Flin Flon within 3.5 km of Lynn Lake branch of CNR. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 65 | CENTURY MINE<br>Ram Petroleums L<br>63 K/15<br>54°52' 100°52.0' | Gold associated with py, gal, cp in veinlets, lenses and masses of qtz in a sheared qtz porphyry dyke in massive and schistose Aphebian Amisk Gp volcanics. | **1919–34**: staking, shaft to 70', crosscut and drifting, small mng plant and mill, discontinued work in 1931, removed equipment 1934.<br>**1936–41**: dd, shaft to 288'; 100 tpd mill operated for very short time.<br>**1946–51**: shaft deepened to 529', 4 levels; intermittent prod suspended in 1949; dd.<br>**1980–81**: geol, geochem, EM, mag surveys, dd. | Prov–prob: 300,000 at 0.35 oz/t Au, open along strike and at depth ***1980*** (Ram Petroleums L, 1980 AR) | Holes drilled in 1951 intersected Au–bearing zones from 600 to 1,100' vertically below the surface.<br>The 1981 drilling met with little success in finding new zones of mnrl'n. |
| MAN. 66 | GOLD ROCK<br>L.K. Smith<br>63 K/15<br>54°50.7' 100°33.0' | Four distinct Au–bearing vein zones exposed for 870' in andesitic and basaltic lava; the zones contain schist with lenses and stringers of qtz mineralized with py, po, cp, sph and gal. | **1928–34**: staking, trenching, samplihng.<br>**1959**: acquired by Norris Lake GML. | ***(i)*** 55' x 3.12' at 0.434 oz/t Au<br>***(ii)*** 170' x 14" at 1.5 oz/t Au<br>(GSC Mem 186, p 48, 1935) | Several small Au-bearing deposits occur near North Star Lake in an area 4.8 km long and 1.6 km wide. |
| MAN. 67 | NORRIS LAKE<br>Granges Inc.<br>63 K/15<br>54°53' 100°30.30' | N/A | **1980–81**: dd. | 250,000 at 0.016 oz/t Au, 0.606 oz/t Ag, 2.51% Cu, 4. 82% Zn across 6.6' to 1,200' depth ***1981*** (VSE FS 250/81, Bar Res L) |  |
| MAN. 68 | BOMBER<br>Falconbridge L<br>63 K/16<br>54°51.3' 100°11' | Tabular volcanogenic ms sulph sulphide body (py po, cp, sph) striking N20°E, dipping vertically, in Amisk Gp mixed sediment–volcanic sequence. | **1954**: staking.<br>**1954–55**: staking, option by HBED, dd.<br>**1968–74**: staking, ground and aeromag, geol surv. | 1,800' x 6' at 0.003 oz/t Au, 0.25 oz/t Ag, 0.04% Cu, 1.0% Zn c ***1960*** (Albert Koffman, c 1960, Man Unpubl Info File) | The deposit is located on Cook Lake about 10 km W of Snow Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 69 | CHISEL LAKE NORTH<br>Hudson Bay Mng & Smg CL<br>63 K/16<br>54°50.5′ 100°06.5′ | Ore zones occur at contact between hanging wall basalt and footwall altered dacite. Orientation of zones changed from NE to NW by intrusion of Chisel Lake gabbro. | **1988**: dd. | ***(i) Green zone***: 1,400,000 at 8.9% Zn (15% dilution)<br>***(ii) Red zone***: 1,500,000 at 9.1% Zn (15% dilution)<br>***or*** prob: 2,000,000 at 9% Zn, 0.17% Cu, 0.4% Pb, minor Au, Ag ***plus*** poss: 400,000 grade unstated Zn, Cu ***1989*** (J Bamburak, pers commun 02/10/89) | Green and Red zones 1,000′ N along the same structure hosting main Chisel mine orebody. |
| MAN. 70 | DICKSTONE MINE<br>Falconbridge L<br>63 K/16<br>54°51.3′ 100°29.4′ | Volcanogenic ms sulph (py, cp, po) associated with Amisk Gp rhyolite and altered mafic volcanics. | **1935–39**: staking, dd.<br>**1960**: lease renewed for 21 years.<br>**1965–75**: optioned by HBM&S, dd, shaft 1 to 1,342′ and shaft 2 to 1,166′. Prod 1970–75: 850,000 at 2.42% Cu, 3.17% Zn, 0.02 oz/t Au, 0.37 oz/t Ag. | 335,600 at 4.5% Zn, 2.43% Cu, 0.31 oz/t Ag, 0.012 oz/t Au ***1975*** (MPS MR 185, p 23) | Milling ceased in August 1985 due to low metal prices. |
| MAN. 71 | JOANNIE<br>Hudson Bay Expl and Dev CL<br>63 K/16<br>54°49.7′ 100°02′ | Cu–rich volcanogenic ms sulph lens in Amisk Gp volcanic sequence. Along strike from Anderson Cu–Zn deposit. | **1943**: claim first recorded.<br>**1956–57**: dd by HBED.<br>**1962**: acquired by HBED. | 1,800′ x 800′ x 4′ at 1.28% Cu ***c 1960*** (Albert Koffman, c 1960, Man Unpubl Info File) | The deposit is located 0.8 km SW of Anderson Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 72 | MORGAN LAKE<br>Granges Inc.<br>63 K/16<br>54°45.7' 100°13.1' | Volcanogenic massive sulphide deposit in Amisk Gp. | **1944–45**: cls first recorded, trenching and dd on Au showing.<br>**1971**: restaking.<br>**1978–79**: Hudson Bay Expl option; EM surveys.<br>**1980–83**: dd.<br>**1984–86**: Granges Expl option dd; discovery hole 14 drilled Jan/85 on EM conductor. | Dd–ind: 400,000 at 0.1 oz/t Au and 16% Zn plus Cu and Ag values<br>(GCNL 16/05/86) | Morgan Lake c 15 km SW of Snow Lake; Zn discovery just SW of large island in the lake; a dd hole to 1,000' level intersected a 29.5' massive sulph core grading 0.355 oz/t Au, 1.87 oz/t Ag, 0.24% Cu and 16.55% Zn. |
| MAN. 73 | NOR–ACME MINE<br>High River Gold Mines Ltd.<br>Inco Gold Co.<br>63 K/16<br>54°53.2' 100°01.4' | Mine area in Aphebian Amisk Gp rocks of greenstone belt; mnrl'n along Howe Sound Fault, between feldspathic sedimentary and volcanic rocks and coarse mafic pyroclastics, with fracturing of wall rocks over widths of 100' or more. Ore as silicified brecciated rock mineralized with 2% asp, 1% po, 0.25% py. Au associated with asp. | **1927**: discovery and staking.<br>**1941**: dd.<br>**1945–49**: mine dev.<br>**1949–58**: prod shaft 1,965', 8 operating levels. Prod 627,000 oz Au, 46,000 oz Ag from 5,400,000 milled.<br>**1980–82**: testing of tockpile by Comiesa Corp; expl by HBM&S included dd, EM, mag and VLF surveys.<br>**1988**: u/g expl. | ***(i)*** ind: 2,786,040 at 0.16 oz/t Au<br>***(ii)*** stockpile: 250,000 at 0.324 oz/t Au (as cyanide residues)<br>***1983***<br>(CMH 1985–86, p 298; Nor–Acme GML, rept to shareholders 1983)<br>*or* prov, prob, poss: 4,207,400 at 0.19 oz/t Au<br>***1989***<br>(GCNL 21/09/89) | Property on NE shore of Snow Lake. The Toots zone also contains approx 1 oz/t Ag to 300' horizon. |
| MAN. 74 | POT LAKE<br>Hudson Bay Expl and Dev CL<br>63 K/16<br>54°46.8' 100°10.9' | Several small sulphide lenses (cp, sph, py, po) in Amisk Gp mafic flows near Daly Lake rhyolite. | **1945–47**: staking.<br>**1955–56**: dd.<br>**1963–67**: restaking, acquired by HBED, dd, mag survey. | 112,000 at 4.5% Zn, 1.43% Cu, 0.55 oz/t Ag, 0.11 oz/t Au<br>(Man AF 90238, 1964) | This deposit is located in the File Lake area. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 75 | SNOW LAKE (GOLDFIELDS)<br>Snow Lake Mines Ltd.<br>63 K/16<br>54°43' 100°01' | Shear–hosted asp–rich qtz vein system near large fold nose. In mafic heterolithic breccia near contact with pillowed mafic flows.<br>Reserves developed on the No 3 zone (45° dip) to 885', one of 13 Au–bearing zones dd tested on the property. | **1981–83**: expl, discovery, dd by Goldfields Can Mng L.<br>**1986–87**: dd, bulk sampling. | Dd–ind: 807,000 at 0.266 oz/t Au 1987 (Snow Lake Mines Ltd. 1987 AR) | 1 mile from town of Snow Lake adjoining the Nor–Acme Mine. |
| MAN. 76 | SQUALL CREEK (JULIAN)<br>W. Bruce Dunlop L<br>63 K/16<br>54°53.8' 100°06.4' | Scheelite–bearing qtz veins in a band of hornblende–biotite gneiss. A little Au in amphibolitic rocks near the veins. | **1949–57**: discovery, stripping, trenching, bulk sample to Ottawa for testing, short ddhs, 105' adit and some drifting, 10 tpd mill. | 5,000 at 1% $WO_3$ ***1955*** (FP Surv Ms, 1955, p 139) | The deposit is found at Squall Creek at W end of Snow Lake. Drilling traced zone to depth of 70'. |
| MAN. 77 | SQUALL LAKE<br>Zenco Res Inc.<br>63 K/16<br>54°55.3' 100°04.8' | Squall L deposit occurs in Kisseynew gneissic terrain; Au, asp, minor cp and po, qtz, chlorite form SE dipping lenses in mafic rock at contact of staurolite schist and arkosic gneiss (Harrison, 1949). | **1924**: first staking recorded.<br>**1941–44**: restaking, trenching, sampling.<br>**1944–46**: dd.<br>**1978–79**: bulk sampling, dd.<br>**1981–84**: mag, VLF–EM, IP surveys, mapping, dd.<br>**1986–88**: dd, bulk sampling. | ***(i)*** Dd–ind: 750,000 at 0.1 oz/t Au in two near surface zones (Margaret extension)<br>***(ii)*** 500,000 to 2,700,000 at 0.2 oz/t Au (u/g deposit)<br>***1984***<br>(NM 29/11/84) | Two separate deposits: ***Margaret*** is u/g zone and ***Margaret extension*** has o/p potential. The latter (near surface mnrl'n) was discovered in dd program in 1984. |
| MAN. 78 | WIM<br>Hudson Bay Mng & Smg CL<br>63 N/1<br>55°01.5' 100°02.6' | A lensoid stratabound zone in Amisk felsic metavolcanic gneisses within the Kisseynew sedimentary gneiss belt. This massive sulphide deposit contains py, po, cp and minor sph. | **1962–69**: discovery by dd airborne EM anomaly; deposit outlined by dd between 800' and 2,100' levels. A 21–year lease issued August 1968. | 1,090,000 at 2.91% Cu, 0.05 oz/t Au, 0.24 oz/t Ag, trace Zn, diluted 10% ***1975*** (Man Publ 75–2, p 92) | The deposit is located about 16 km N of the town of Snow Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 79 | JUNGLE LAKE<br>Hudson Bay Mng & Smg CL<br>63 N/2<br>55°09.8' 100°58.3' | Massive py, po, with stringers and blebs of cp and sph in E–W zone 1,200' x 18' diping 40°N in Kisseynew sedimentary gneiss belt. | **1957–61**: staking, geoph survey, dd; a 21–year lease issued to HBM&S in 1961. | 3,700,000 at 1.42% Cu, 1.1% Zn ***1958*** (HBM&S, 1958 AR) | The deposit is located about 8 km NE of Sherridon. It was uneconomic in 1958 at prevailing metal prices. |
| MAN. 80 | NOKOMIS LAKE<br>Dome Expl (Can) L<br>63 N/2<br>55°03.6' 100°52.8' | Gold associated with asp, also py, po in qtz rich hornblende–plagioclase gneiss within an amphibolitic unit in the Kisseynew sedimentary gneiss belt. | **1952–62**: staking, trenching and sampling, dd; Rio Tinto Cdn Expl L dropped option.<br>**1971–74**: restaking, acquired by Dome Expl (Can) L; airborne–mag and EM plus ground EM, dd.<br>**1984–85**: dd. | 136 000 mt at 7.78 g/mt Au ***1961*** (NM 18/10/84) | The deposit is located about 14.5 km SE of Sherridon; work in 1984–85 by Dome Expl in conjunction with Manitoba Mnrl Res. |
| MAN. 81 | PUFFY LAKE<br>Pioneer Metals Corp.<br>63 N/2<br>55°01'30" 100°58'30" | Shear hosted, asp–rich qtz veins within hornblende–biotite gneiss along south flank of Kisseynew Gneiss Domain. Four zones follow shallow–dipping shear parallel to trace of a late fold axis. | **1980–81**: optioned by Maverick Mtn Res from Granges Expl; dd outlined mnrl deposit.<br>**1983**: dd by Granges.<br>**1984–85**: dd, bulk sample, metallurgical studies; engineering rept mng and milling methods.<br>**1986–89**: u/g expl, development, mill, production via decline. | Prob & poss: 3,900,000 at 0.23 oz/t Au ***1987*** (preproduction) (NM 27/03/89) | Operations suspended May or June 1989. |
| MAN. 82 | BOB LAKE<br>LynnGold Resources Inc.<br>63 N/3<br>55°09.5' 101°02.5' | Two tabular sulphide lenses (cp, po, sph, within pegmatite sill–like masses) intruded into gneisses. The deposit is localized along folds within the Kisseynew sedimentary gneiss belt. | **1938–40**: geol, geoph surveys, dd of anomalies.<br>**1941–42**: discovery, dd. | 2,380,000 at 1.33% Cu, 1.18% Zn, 0.01 oz/t Au, 0.27 oz/t Ag ***1942*** (Sherritt Gordon ML, 1942 AR) | This deposit, 5.5 km NE of Sherridon, consists of three lenses beneath Bob Lake. Deposit was uneconomic when Sherritt Gordon Mines had a concentrator nearby at Sherridan. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 83 | GRASS<br>Inco L<br>63 O/1<br>55°14.3' 98°21.1' | Low–grade disseminated sulphides or sulphide veinlets in PC peridotite within gneiss near a body of granodiorite. The deposit is near a doubly plunging fold and on or near a fault. | **1950–57**: staking, geoph, dd. | N/A Ni | The deposit is located W of Grass River, 66 km SW of the city of Thompson. |
| MAN. 84 | SOAB MINE<br>Inco L<br>63 O/1<br>55°14' 98°25' | Massive to disseminated sulphides (po, py, pn, cp) in peridotite, metasediments and/or gneisses. A doubly plunging fold is located near the deposit. | **1951–56**: airborne magnetic survey and follow–up ground EM, dd.<br>**1965–71**: south shaft to 1,652' and north shaft to 2,083', levels at 200' intervals, exploratory deep drilling, prod from 1967–71, ore transported to Thompson for processing. | 100,000 to 1,000,000 contained Ni (grades up to 1.5% Ni) ***1968*** (MPS Min Rept 16, pp 75–76, 1968) | Production at 4,000 tpd. Equipment removed and shafts capped, c 1982. (FP 12/03/83) |
| MAN. 85 | HAMBONE<br>Inco L<br>63 O/8<br>55°17.3' 98°20' | Py, po, pn as breccia sulphides or as bands, stringers and disseminations within a large drag–fold in PC granitic gneiss and some in small intrusions of serpentinized peridotite. | **1947**: staking.<br>**1955–58**: dd, option to Maralgo ML, mag and EM surveys, deep drilling.<br>**1959**: property sold to Inco. | Ind: 3,600,000 at 0.81% Ni in one deposit and 1,200,000 at 1.10% Ni in two ther zones ***1958*** (NM 12/10/58) | The property is 61 km SW of the city of Thompson. The mineralized zone extends to the 1,000' level. |
| MAN. 86 | PIPE<br>Inco L<br>63 O/8<br>55°29.8' 98°09.4' | Two Ni–Cu deposits in highly jointed and fractured PC serpentinized peridotite containing dissem and stringer sulphs (po, py, pn, cp). | **1953–55**: staking, geophs.<br>**1960–61**: expl shaft to 1,580'; u/g dd.<br>**1968**: dredging and overburden removal in prep for o/p.<br>**1970–73**: o/p prod started; Pipe 2 shaft sunk to 3,100'.<br>**1977**: shaft dev suspended.<br>**1985**: o/p mined out. | N/A Ni | Located 32 km SW of the city of Thompson; Nickel-bearing material remains in both deposits, the smaller Pipe No. 1 and the larger deposit beneath the Pipe No. 2 open pit. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 87 | MEL ZONE<br>Inco L<br>63 P/13<br>55°58.4′ 97°46.2′ | The deposit is overlain by glacial drift and the nature of the host rock is uncertain. | **1961–63**: staking, geoph survey, dd.<br>**1967**: a 21-year lease issued.<br>**1969–70**: dd. | N/A Ni | The deposit is 10.5 km NW of Moak Lake. |
| MAN. 88 | MOAK MINE<br>Inco L<br>63 P/13<br>55°56.1′ 97°34.9′ | Po, py, pn and minor cp and precious metals as disseminations and stringers in serpentinized peridotite. Massive Ni–Cu sulphides in fracture zones. | **1952**: discovered by geophysics, staked, one ddh.<br>**1955–58**: expl shaft to 1,325′; prod shaft started; u/g dd, lateral work on 700′, 1,000′ and 1,300′ levels. | 50,000,000 at 0.7% Ni ***1955*** (CMJ Jan 1955, p 102) | The deposit is located about 26.5 mi NE of Thompson. Shortly after dev the higher grade Thompson deposit was discovered and the Moak project was postponed indefinitely. |
| MAN. 89 | MYSTERY LAKE SOUTH<br>Inco L<br>63 P/13<br>55°49.7′ 97°45.4′ | Po, py, pn, cp, sph disseminated in PC serpentinized peridotite sill(s). | **1928**: 200′ of dd.<br>**1946–52**: sampling, option to Cdn Nickel CL, mag, EM and geol surveys, dd.<br>**1956–57**: dd. | 250,000,000 at 0.6% Ni equivalent to 1,000′ depth ***1952*** (House of Commons Debates, April 24, 1952, V 94, No 34, p 1561) | The deposit is located beneath Mystery Lake about 5.5 km NNE of the city of Thompson. Another figures reported is 249 million at 0.46% Ni (Cove Uranium ML, 1956 AR). |
| MAN. 90 | MacBRIDE LAKE<br>Kancana Ventures Ltd.<br>64 B/13<br>56°53.1′ 99°55.0′ | Disseminated to massive sulphides (py, po, sph, cp, gal) in qtz–feldspar biotite–amphibole and garnet gneiss within a volcanic belt on the eastern extension of the greenstone belts of the Lynn Lake area. Main zone is 9.15′ x 700′ to 1,400′ down dip (open at depth and at both ends). | **1957–61**: staking, option to Sherritt Gordon ML, and again to HBED; ground EM, dd.<br>**1968**: airborne Input EM and mag survey for Man Mines Br did not detect deposit.<br>**1969–75**: restaking, acquired by Knobby Lake ML, EM and mag surveys, dd.<br>**1976–80**: dd, EM. | 2,006,247 at 8.77% Zn, 0.35% Cu, 0.34 oz/t Ag, 0.004 oz/t Au ***includes*** 236,118 prov at 8.29% Zn, 0.41% Cu plus 356,860 dd–ind at 8.77% Zn, 0.35% Cu ***1984*** (CMH 1985–86, p 114; and, Cons Knobby Lake ML *in* VSE SMF 17/86) | MacBride Lake is situated about 64 km E of Lynn Lake. Drilling tested only 760′ of the anomalous A zone which extends both N and S for 7,500′. The deepest dd intersection at vertical depth of 1,140′. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 91 | LASTHOPE<br>Balcor Resources Corp.<br>64 C/10<br>56°40.6′ 100°50.3′ | Two Au–bearing shoots, minor sulphs in steeply dipping, tabular qtz veins in feldspathic qtzite of Wasekwan rocks in the Lynn Lake Greenstone belt.<br>The vein is bounded on the north by a felsite dyke. | **1937–41**: discovery, staking, pitting, sampling, dd. | 596,000 at 0.24 oz/t Au ***1988***<br>(NM 6/03/89) | Deposit about 29 km SE of Lynn Lake. |
| MAN. 92 | IT GROUP<br>Black Hawk Mining Inc.<br>64 C/12<br>56°36′51″ 101°34′30″ | Base metals, po in calc–silicate gneiss. | **1948**: tr.<br>**1962**: geoph.<br>**1967–68**: tr.<br>**1969**: dd.<br>**1988**: geoph, dd. | 1,000,000 at 0.04% Cu, 0.81% Zn, 0.48% Pb and 0.76 oz/t Au ***1988***<br>(Black Hawk Mining Inc. 1988 AR) |  |
| MAN. 93 | LAURIE LAKE (LAR)<br>LynnGold Resources Inc.<br>64 C/12<br>56°38.1′ 101°52.8′ | Diss. to ms py, po, cp, sph, gal. | **1961**: staking<br>**1962, 65**: dd.<br>**1969**: dd. | Geol reserve: 1,500,000 at 0.80% Cu, 2.15% Zn ***1988***<br>(LynnGold Res Inc. 1988 AR) |  |
| MAN. 94 | FRANCES LAKE<br>Granges Inc.<br>64 C/14<br>56°49′20″ 101°07′00″ | Cu–Zn deposit near contact of qtz–plagioclase porphyry with West Lynn Lake Anticline (PC Wasekwan volcanics and sediments). | **1976–78**: discovery, geoph, dd.<br>**1979–80**: dd. | 355,000 at 0.45% Cu, 5.45% Zn, 0.061 oz/t Au ***1988 ?***<br>(LynnGold Res Inc. 1988 AR) | Deposit on W side of Frances Lake, 5 km SW of Lynn Lake; mineralization intersected over length of 800′ to depth of 900′. Joint venture with Manitoba Mineral Res. Ltd. and LynnGold Res L. |
| MAN. 95 | GOODENOUGH<br>Sherlynn ML<br>64 C/14<br>56°53.7′ 101°05.5′ | Po, py, cp, sph in hornblendite, tuffs, and breccias at the contact with the "Berge Lake" granite. Some Mo reported in one ddh. | **1947–54**: staking, mag and geol mapping, dd.<br>**1978**: Granges AB option, geoph survey, dd. | Ind: 182,000 at 2.63% Cu, 1.21% Zn, 0.06 oz/t Au ***1954***<br>(Sherritt Gordon ML, 1954 AR) | The deposit is located about 4 km N of Lynn Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 96 | LYNN LAKE MINE<br>LynnGold Resources Inc.<br>64 C/14<br>56°53.7' 101°05.5' | Po, pentlandite, cp, py in amphibolite in early Proterozoic gabbro. Sulphs are disseminated in veins, massive and in breccia. | **1941**: prospecting.<br>**1945**: staking.<br>**1946–51**: dd, discovery, pilot plant, shaft sinking.<br>**1953–76**: production.<br>**1953–73**: 21,232,474 tons milled which yielded 444,220,254 lbs Ni, 202,050,090 lbs Cu, 8,048,714 lbs Co. | 19,300,000 at 0.60% Ni, 0.32% Cu, 0.02% Co ***1988 ?*** (LynnGold Resources Inc. 1988 AR) | Tonnage in all Lynn Lake nickel deposits including EL mine. |
| MAN. 97 | "Z" DEPOSIT<br>LynnGold Resources Inc.<br>64 C/14<br>56°49.7' 101°01.5' | The "Z" deposit occurs in Aphebian metasediments and metavolcanic rocks of the Wasekwan Group just S of the Lynn Lake gabbro. Heavily disseminated cp and sph occur in qtzose and hornblendic gneisses. | **1946–47**: geol and geoph surveys, discovery, dd. | 153,000 at 1.113% Cu, 2.49% Zn, 0.016 oz/t Au ***1949*** (Sherritt Gordon ML 1949 AR) | The "Z" deposit is near the former producing Lynn Lake nickel mine. A recalculation of reserves by the company showed a slight increase in tonnage but the manager of geol & expl in 1973 suggested that the figure was optimistic and that half the tonnage would be more realistic. |
| MAN. 98 | F L & D H GROUPS<br>Granges Inc.<br>64 C/14, 15<br>56°50.0' 101°0.5' | Sulphides, incl massive po with some cp and sph occur in metavolcanic and metasedimentary rocks of the Wasekwan Group and in mafic intrusive. | **1946–54**: staking, geol, mag and EM surveys, dd.<br>**1975**: restaked for Granges Expl AB. | Ind: 500,000 at 0.9% Cu, 2.2% Zn ***c 1950*** (Man Geol & Min Res of Man, p 122, 1962) ***or*** 566,000 at 0.91% Cu, 1.86% Zn ***1988 ?*** (LynnGold Res Inc. 1988 AR) | The deposit is located about 5 km SE of the town of Lynn Lake. Partnership with LynnGold ? |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| MAN. 99 | WASEKWAN LAKE (C.L.)<br>LynnGold Resources Inc.<br>64 C/15<br>56°45'20" 100°54'20" | Narrow qtz veins with gal, py, cp and gold in sheared basalts and tuffs. | **1939**: staking.<br>**1940–43**: dd.<br>**1985–89**: geol, geoph, dd. | ***(i) T1A Zone***: 1,000,000 at 0.09 oz/t Au ***1987*** (SherrGold Inc. 1987 AR)<br>***(ii) Burnt Timber Deposit***: 1,105,000 at 0.11 oz/t Au, drill proven geological reserves ***1988***<br>***(iii) North Zone***: 137,000 at 0.275 oz/t Au, drill inferred ***1988*** (LynnGold Resources Inc. 1988 AR) | TransAmerica Industries Ltd. has 49% interest. |
| MAN. 100 | CARTWRIGHT LAKE (BONANZA)<br>LynnGold Resources Inc.<br>64 C/15<br>56°47'13" 100°41'34" | Gold with sulphs in qtz stringers in felsic dykes near Johnson shear zone. | **1985–87**: geol, geochem, geoph, dd. | Dd–inf geol: 722,000 at 0.07 oz/t Au ***1980*** (SherrGold 1987 AR) |  |
| MAN. 101 | DOT<br>LynnGold Resources Inc.<br>64 C/15<br>56°54' 100°58' | Au mnrl'n at Dot occurs on the Agassiz structure adjacent to the Maclellan mine; the latter contains Au and sulphs in sheared tuffaceous clastic zone with IF facies; HW comprises amygdaloidal altered basalts. | **1983–84**: shallow dd indicated Au–bearing structure on trend of adjoining MacLellan mine structure.<br>**1985–89**: dd. | ***(i) K5 Zone***: 385,000 at 0.15 oz/t Au (geol reserves) ***1988***<br>***(ii) Other zones***: 775,000 at 0.10 oz/t Au (geol reserves) ***1988*** (LynnGold Resources Inc. 1988 AR) | Adjoins MacLellan Mine. |
| MAN. 102 | BARRINGTON LAKE<br>Hudson Bay Expl and Dev CL<br>64 C/16<br>56°57.7' 100°17.7' | Copper deposit in a highly altered area (shear zone) well mineralized with py in andesite within a greenstone belt bounded on N and S by granitic rocks. | **1946–47**: staking, trenching, sampling, geol rept.<br>**1969–72**: staking, mnrl'n discovered while dd an airborne anomaly. | 111 040 mt at 2.63% Cu ***1984*** (Cu and Zn in Man, p 22, Man ES, 1986) | Deposit is located about 48 km ENE of the town of Lynn Lake. Early sampling indicated low Au content. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| MAN. 103 | FARLEY LAKE<br>Manitoba Mnrl Res L, Mingold Resources Inc.<br>64 C/16<br>56°54.4' 100°26.5' | Au mnrl'n assoc with sulphs in stratabound iron formation and with x–cutting qtz veins and stringers; mnrl'n over 1,800' x 1,000' area. | **1985–86**: discovery, dd.<br>**1988**: road, dam construction, bulk sample, dd. | 2,460,000 tons at 0.104 oz/t Au 1988 (Man Exploration Highlights, Mar. 1988 – Feb. 1989) | Located 38 km E of Lynn Lake between Farley and Gordon Lakes. |

# SASKATCHEWAN

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| SASK. 1 | HENNING–MALONEY MINE<br>Vista Ms Inc<br>63 K/12<br>54°42'25" 101°54'35" | Gold, cp, asp in qtz–filled shears; subsidiary to the Rio Fault, in diorite "dyke" x–cutting border phase of a synkinematic granodiorite body that intrudes Amisk Group. | **1931–41**: staking, trenching, shaft to 162' two levels, drifting, 3 raises, dd, small shipments of ore to HBM&S, mine closed in 1941 and building destroyed by fire.<br>**1964–73**: dd, EM and IP surveys.<br>**1980**: dd.<br>**1986–88**: tr, dd, u/g workings dewatered and rehabilitated, sampling. | Prov: 15,000 at 0.45 oz/t Au to 100' level ***plus*** 43,000 poss at 0.16 to 0.32 oz/t Au<br>***1983***<br>(NM 01/09/83 and 03/11/83) | The deposit is situated about 6 km SSW of Flin Flon. Proposed milling at the nearby Bootleg Lake mill. |
| SASK. 2 | NEWCOR MINE<br>Vista Ms Inc<br>Colray Res L<br>63 K/12<br>54°43'36" 101°54'50" | Au in asp in qtz veins stringers and lenses within chlorite schist, in a fault zone in basaltic flows of the Aphebian Amisk Group. | **1933–37**: staking, trenching, dd, inclined shaft to 460', four levels.<br>**1947–48**: 200 tpd reduction mill and 125 tpd smelter operated for a few months, some gold and arsenic produced.<br>**1959–72**: dd, trenching, assaying.<br>**1981–82**: Flin Flon ML (option), engineering study.<br>**1987–88**: cleaning old tr, dd. | 42,528 at 0.313 oz/t Au (0.16 cut off), 0.88 oz/t Ag, 4.10% Zn, 0.4% Cu ***plus*** 156,000 prob of similar grade<br>***1983***<br>(NM 01/09/85 and 19/07/84 and 03/11/83)<br>***or*** ind: 90,122 at 0.216 oz/t Au<br>(Vista Ms Inc, 1988 AR) | The mine is situated about 1.2 km NNW of the Rio mill. Deposit open down plunge; high arsenic content but mill can be modified to process Newcor type ore. Operation closed 1985. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 3 | RIO<br>Vista Ms Inc<br>63 K/12<br>54°42'55" 101°54'20" | Zone of faulting and alteration, containing qtz stringers, minor cp, sph, gal, a little py and Au, cuts basalt of Amisk Group that has been intruded by dykes of qtz–feldspar porphyry along contact of synkinematic tonalite. | **1931–40**: staking, trenching, dd; discovered in 1936.<br>**1960–69**: acquired by Flin Flon ML; exploration work.<br>**1970–74**: dd, EM.<br>**1975**: Rio Auro ML option.<br>**1980–84**: dd, pre-production work including ramp to 125' level; mining started Oct/83, ore stockpiled; mill (125 tpd) opened Aug/84 but closed three months later.<br>**1986–88**: geoph survey, dd, ramp extended to 250' level, u/g dev, mined and milled 20,000 ton bulk sample. | 120,000 at 0.29 oz/t Au to 350' level, contains two high–grade pods (0.3 to 0.5 oz/t) **or** 163,000 at 0.29 oz/t Au to 500'<br>***1984***<br>(NM 19/07/85, p B 12 and 13/09/84)<br>***or*** Prov: 221,479 at 0.138 oz/t Au<br>(NM 18/04/88, p 16) | This deposit is located 1.2 km SSE of Newcor and 1.3 km NNE of Maloney; open down dip to below 700' level. Mine closed due to poor recovery; less than 60%.<br>In 1988 the mill was upgraded to handle 300 tpd. |
| SASK. 4 | LAUREL LAKE<br>Cameco<br>Husky Oil L<br>63 L/9<br>54°42' 102°15' | Au (poss epithermal) assoc. with high level dyke complex intruding Amisk subaerial volc. | **1932**: tr.<br>**1945**: dd.<br>**1951–60**: tr, dd.<br>**1984**: geoph survey.<br>**1987–88**: dd, u/g expl, bulk sampling. | prob geological: 387,000 mt at 11.3 g/mt Au<br>(Cameco, 1988 AR)<br>***or*** prob, poss: 282,000 at 0.44 oz/t Au, 2.2 oz/t Ag in several zones to 300 m depth<br>(Sask Mining Dev Corp, 1987 AR) | Located on Missi Island in Amisk Lake some 25 km SW of Flin Flon. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 5 | RAMSAY SHOWING (QUANDT GROUP)<br>Share Ms & Oils L (50%)<br>Western Nuclear Inc (30%)<br>63 L/10<br>54°44'17" 102°45'05" | Py, po, sph, cp and covellite mineralization related to sill-like bodies of pegmatite in shear zone in biotite–garnet gneiss of the Early Proterozoic Kisseynew Domain. The sulpides occur as massive intergranular fillings, stringers and small fracture–filling veinlets in the pegmatite and gneiss. | **1954–66**: discovery, staking; option to Tombill ML in 1974; trenching, dd.<br>**1984–85**: geoph, dd, mapping, prospecting. | Ind: 814,646 at 2.16% Cu, 1.77% Zn, 0.203 oz/t Ag, 0.003 oz/t Au diluted ***1967***<br>(NM 16/11/67 and Share Ms & Oils 1985, AR) | On Keputch Lake, 56 km W of Flin Flon. Tonnage occurs in 7 zones, two of which remain open below 1,100'; SMDC and Esso Mnrls Can held option in 1984. |
| SASK. 6 | HANSON LAKE (McILVENNA BAY)<br>Cameco<br>Trimin Res Inc<br>63 L/10<br>54°37'30" 102°51' (approx.) | Cp, sph in 4 parallel lenses. Assoc. with Amisk dacite overlain by Paleozoic ls. | **1987–89**: geoph survey, dd, pre–feasibility study. | Poss: in No 2 lens 7 700 000 mt at 1.1% Cu, 6.5% Zn, 28 g/mt Ag, 0.54 g/mt Au<br>Potential: in No 1 lens 400 000 mt at 2.5% Zn, 1.7% Cu<br>Potential: in No 3 lens 44 000 mt at 8.1% Zn, 1.6% Cu<br>(Trimin Res Inc, Listing Statement No. 3697, 18/08/89) | Located some 65 km W of Flin Flon and 8 km S of the old Hanson Lake Mine. |
| SASK. 7 | BIGSTONE LAKE<br>Granges Expl L (28%)<br>Sask Mng Dev Corp (50%)<br>63 L/11<br>54°34'58" 103°11'40" | Cu–Zn mineralization in a belt of steeply west dipping fine-grained PC metavolcanics, overlain by 50 m of Paleozoic sandstones and dolomites. | **1982**: discovered by Granges by dd EM anomaly.<br>**1984–85**: dd, down–the–hole EM detected a third parallel zone; metallurgical testing; evaluating feasibility of mng high–grade Zn. | Prob: 4,000,000 at 1.87% Cu, 1.1% Zn, 0.013 oz/t Au,0.29 oz/t Ag ***includes*** two parallel zones: (i) 1,400,000 at 2.91% Cu<br>(ii) 372,000 at 11.2% Zn ***1985***<br>(NM 04/07/85) | Deposit is located about 88 km W of Flin Flon, between Bigstone and Limestone Lakes.<br>Tested a parallel structure by dd to 640 m in 1985. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 8 | GRAHAM (BATTY–GRAHAM)<br>Cameco and Vista Ms Inc, J.V.<br>63 L/16<br>54°46'45" 102°11'50" | Four Au–bearing zones in shear zone in Missi Group sediments; py, rare cp in qtz veins and wall rock; free Au abundant in some qtz veinlets. No 1 zone contains 0.6 to 0.9 m wide qtz vein plus stringers in a 2.1 m wide shear zone. | **1915–21**: staking, stripping, trenching, prospect shaft.<br>**1932–33**: dev work, 10–ton mill, drilling.<br>**1964**: limited sampling and dd.<br>**1987–89**: dd. | Ind: 54,000 at 0.280 oz/t Au<br>(Vista Ms Inc, 1988 AR) | Property, N of North Channel, Amisk Lake. |
| SASK. 9 | ROBINSON CREEK<br>Cameco<br>63 L/16<br>54°46'07" 102°08'50" | NW–trending shear zone in Amisk Gp mafic lavas near contact of Missi conglomerate and intrusive porphyritic granodiorite: free gold, py, asp, cp in shear zone, but concentrated within a number of narrow veins. | **1915–18**: staking, trenching.<br>**1946**: dd by HBM&S, metallurgical tests.<br>**1981**: linecutting, trenching, geoph, 3,088' dd; new Au zone discovered.<br>**1982–84**: dd, sampling, mapping.<br>**1987**: dd. | 200,000 at 0.10 oz/t Au<br>(CMH 1988–89, p 427) | In Quartz zone. Property located some 20 km W of Flin Flon. |
| SASK. 10 | SCHOTTS LAKE<br>Stall Lake ML (70%)<br>Scope Res L (30%)<br>63 M/1<br>55°05'45" 102°13'35" | Disseminated sulphides with zones of massive py and po plus small quantities of cp in Kisseynew–type gneisses (hornblend–biotite, biotite garnet, and calc–silicate) of possible sedimentary origin. | **1953–70**: staking, option to HBED in 1954, EM survey, dd; acquired by Stall Lake ML and Scope Res L c 1970, dd. | Ind: 2,186,056 at 0.61% Cu, 1.35% Zn plus values in Au and Ag ***1970***<br>(NM 05/10/72) | Property about 40 km NW of Flin Flon. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 11 | GEE LAKE (SAD)<br>Comaplex Res Inc<br>Ora Res Inc<br>63 M/4<br>55°10'30" 103°33'40" | Dissem to massive py, po with minor cp, sph and gal mainly in fractures in a brecciated and quartzitic schist. | **1965–68**: geoph surveys and 7,260' of dd in 27 holes.<br>**1988**: geoph survey. | Dd–ind minimum 650,000 at c 0.5% Cu, 3.0% Zn (Ora Resources Inc, 1988 AR)<br>***or*** 1,380,000 at 0.56% Cu, 1.75% Zn (VSE SMF 11/02/88, Waddy Lake Res Inc) | "In HBED Cu–Zn zone".<br>– On Mineral Lease 5256. Not known if these are one and the same mineralized zone. Location uncertain but may be on the SAD claims, located some 2.5 km NW of the north end of Nicholson Lake. |
| SASK. 12 | BROWNELL LAKE (EV GROUP)<br>Comaplex Res International L (in 1982)<br>63 M/4<br>55°01' 103°38' | Py, po, sph, cp, as disseminations, as stringers, and in qtz veins in mineralized zone 6,000' long within chlorite-biotite–feldspar– garnet-hornblende gneisses. | **1960–63**: Cdn Nickel CL traced zone by dd and trenching.<br>**1970–72**: geoph survey, dd, by La Ronge Mnrls L .<br>**1981–82**: geoph survey, drill core examination. | N/A Cu–Zn–Au | The property is E of Lac La Ronge. Assays from dd up to 3.2% Zn, 1.18% Cu over widths to 28' (NM 24/02/72, p 3). |
| SASK. 13 | SEABEE<br>Claude Res Inc<br>63 M/12<br>55°40'45" 103°37'35" | Shear-hosted, Au-bearing qtz vein within the gabbroic, qtz diorite phases of the Laonil Lake intrusive complex. Contained within a series of ENE-trending vertical shear zones. Au, cp, py, po, mag & tellurides.<br>Drilling on zone of significant folding has extended main vein systems (Nos 2 and 5) to a depth of 1,000'. | **1949–50**: staking, trenching, dd.<br>**1961, 1974**: dd.<br>**1984–85**: dd, bulk sampling, metallurgical testing, soil sampling, VLF–EM and geol surveys, surface trenching and stripping.<br>**1986**: dd.<br>**1987**: decline ramp, lateral dev, dd, bulk sampling.<br>**1988–89**: prefeasibility and final feasibiity studies. | Total 2,100,000 at 0.185 oz/t Au (NM 13/06/88)<br>***or*** 1,000,000 at 0.365 oz/t Au; includes prov and prob 645,000 at 0.365 oz/t Au (NM 02/01/89) | The property lies on the NE side of Laonil L; some 150 km NW of Flin Flon. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 14 | MOKOMAN (KNIFE) LAKE<br>A.L. Parres (in 1974)<br>63 M/15<br>55°52'20" 102°44'12" | Py, po, cp, minor sph in a very coarse pegmatite-like, greenish felsic gneiss, thought to be part of the Lower Proterozoic Amisk Gp of the Kisseynew Domain. | **1969–71**: staking, trenching, dd, EM, mag and geochem by Straus Expl Inc. | Ind: 6,000,000 at 1% Cu *c* ***1971***<br>(CMH 1974–75, p 312) | Property about 136 km NW of Flin Flon. |
| SASK. 15 | EP (PARTRIDGE) ZONE<br>Waddy Lake Res Inc<br>Placer Dome Inc<br>64 D/4<br>56°12'30" 103°55'35" | A 3 to 7 m wide SE shallow–dipping zone of fault gouge, chloritization, qtz vein and felsic dyke emplacement, cuts andesite and rhyolite. Free Au in qtz veins and chlorite–carb rocks in assoc with native Cu, py, gal, mo and Ag.<br>The till along an assoc. dispersion train averages \$15/m$^3$ in gold. | **1960**: soil panning by Eric Partridge discovered Au in till NE of Komis deposit.<br>**1973**: soil panning and sampling.<br>**1980–83**: Wacker overburden sampling, pit sampling, sonic overburden drilling; and finally, in 1983, the bedrock source of the Au was discovered by dd ("riddle" solved).<br>**1985**: optioned by Placer Dev; soil and overburden drill sampling. | Poss: 250 000 mt at 5 to 7 g/mt Au ***plus*** about \$2 million recoverable in the till ***1985***<br>(Ashbury, B C; CIM La Ronge Field Trip, Sept/85) | EP zone lies 345 m NE of the Komis deposit; same property. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 16 | KOMIS<br>Waddy Lake Res Inc<br>Placer Dome Inc<br>64 D/4<br>56°12'20" 103°55'50" | Au–bearing extensional veins up to 10 m wide, in andesite at margin of Round Lake granodiorite pluton; also Au–bearing extensional vein system (up to 5 m wide) in granodiorite dykes. Au in qtz veins and in py grains in pyritic halos surrounding the veins. | **1958–61**: discovery, staking, geol and mag surveys, prospecting, sampling, dd.<br>**1973–75**: soil sampling, IP survey, dd.<br>**1980–81**: bulk sample (1,031 tons) tested in portable mill, adit and drifting, dd, soil sampling, assaying, mapping.<br>**1982–83**: geol, geochem, dd, heap leach test, metallurgical study.<br>**1984–85**: Placer (option), soil and overburden drill sampling, pre–feasibility study.<br>**1986–88**: till sampling on Au anomalies, geoph survey, dd.. | Ind + prob: 1,605,800 at 0.15 oz/t Au (0.11 cut) to 180 m *or* 3,300,000 poss at 0.15 oz/t Au to 400 m<br>***1983***<br>(Sask OFR 84–1) | NW of narrows between Upper and Lower Waddy Lake.<br>Rept in **1984** suggests 500 tpd mill and o/p mine containing 1,285,900 at 0.12 oz/t Au ***plus*** 1,000,000 of lower grade to 122 m; metal-lurgy indicates 92% recovery using gravity scavenging and carbon– leach cyanidation. |
| SASK. 17 | McKENZIE (PEG)<br>Gamsan Res L<br>64 D/4<br>56°07'20" 103°42'04" | Py, cp, sph, po, gal, chalcocite and gahnite (zinc spinel) as fracture fillings and disseminated grains along zones of crushing and brecciation in fractured pegmatite, which is a conformable layer in biotite gneiss. | **1956–58**: mag and EM surveys, dd, 4 deep dd holes.<br>**1965–66**: drilling (under option to Rio Tinto Cdn Expl L).<br>**1988–89**: geoph and geochem surveys, dd. | Ind: 4,300,000 at 4.43% Zn, 0.64% Cu ***1966*** (CMH 1985–86, p 64)<br>*or* 3 695 381 mt at 4.84% Zn, 0.55% Cu, 0.27% Pb, 18.63 g/t Ag, 0.18 g/t Au (at 2% Zn cutoff and minimum 3 m mining width) (Gamsan News Release, 4/05/89) | North of Brabant Lake, 144 km NE of La Ronge. The tonnage includes two zones over a slope distance of 1,000'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 18 | WEEDY LAKE<br>Tyler Res Inc<br>Golden Rule Res L<br>Cameco<br>64 D/4<br>56°13'03" 103°47'13" | The B zone, one of several Au–bearing zones contains a NE plunging oval–shaped core 350 m x 60 m surrounded by low–grade mnrln within a sheared qtz diorite body intruding mafic volcanics. Qtz veins and stringers contain minor py, and wall rocks commonly carry py.<br>The Golden Heart zone has indicated thickness of 3 to 15 m, avg width of 70 m and extends c 460 m down plunge. Significant intercepts of 23.3 to 40.5 g/mt Au. | **1948–49**: staking, discovery, tr, sampling, dd.<br>**1961**: prospecting.<br>**1981–83**: geol mapping, prospecting, geoph, soil geochem, tr, over-burden drilling, sampling, dd.<br>**1984**: dd; metallurgical testing viability of heap leaching.<br>**1987–89**: geochem survey, tr, dd on B zone and Golden Heart high–grade zone. | ***(i) B zone core***: c 1,000,000 at c 0.14 oz/t Au; open pit material (Tyler Res Inc, 1988 AR)<br>***(ii) surrounding mnrl'n***: 3 700 000 mt at 0.055 oz/t Au<br>***1984***<br>(Sask OFR 84–1, pp 74–75) | Property lies NW of Weedy Lake and 4 km east of Upper Waddy Lake. Close spaced drilling necessary to establish o/p potential. |
| SASK. 19 | WEDGE LAKE (TWIN ZONES)<br>Giant Yellowknife ML<br>Golden Rule Res L<br>Cameco<br>64 D/5<br>56°15'00" 103°50'45" | The North and South Twin zones are Au–bearing zones in a siliceous sulph–rich brecciated unit within a folded banded iron fm, close to margin of a granodiorite batholith; Au assoc with asp. | **1951–53**: discovered three Au qtz vein zones; geol, trenching, sampling, dd, dip needle survey.<br>**1980–83**: Wedge Lake prop acquired by Giant et al. Twin zones discovered in 198[illegible] by prospecting geochem anomalies; airborne mag, ground mag and VLF–EM, geol, resampled old trenches, dd.<br>**1984**: dd; detailed mapping and core logging on Twin zones; VLF–EM, gam, trenching, sampling, soil geochem. | ***Twin zones***: 390,000 at 0.18 oz/t Au ***1984***<br>(Golden Rule Res L, 1987 AR) | Twin zones lie between North and South Twin Lakes near vein 3 on Wedge Lake property. Drilling confirmed continuity of mnrln to 100 m; delineated on strike but remains partially open at depth.<br>An extensive amount of drilling will be required to outline additional reserves in this structurally and geologically complex deposit. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 20 | POLLON LAKE (DEEP BAY)<br>Deep Bay Graphite L<br>64 D/6<br>56°23'00" 103°07'30" | Banded graphite-qtz-biotite gneiss of the Early Proterozoic Kisseynew Domain. Thin bands (3-8m) containing 1mm (avg.) grp flakes in concentrations of up to 25%. Minor (1-5%) dis py-po ± cp was intersected by dd over widths < 1m. | **1956**: geol work.<br>**1965–67**: photogeol, staking, airborne EM anomaly, ground EM and mag survey, dd.<br>**1973–77**: restaking; geochem survey revealed anomalous Cu; mapping, trenching, sampling, geoph survey, dd; tested bulk sample, feasibility study. | 1,800,000 at 10.32% grp to 200', o/p tonnage ***1976*** (NM 18/11/76) | Property W of Deep Bay at the S end of Reindeer Lake. Feasibility study in 1977 involving a 9,000 ton/year flake graphite floation circuit. Further development awaiting settlement of native land claims. |
| SASK. 21 | HORN (BLEASDELL LAKE)<br>Fosago Expls L<br>(in 1974)<br>64 D/9<br>56°35'20" 102°21'15" | Gneiss and granulite dome containing a granodiorite plug at the centre. Pegmatite sills cut the gneiss. Mineralization (U stain and uraninite) occurs in the biotite and hornblende phases of the pegmatite. | **1955–57**: discovery, trenching, sampling, packsack drilling.<br>**1969**: airborne spectrometer survey and geol reconnaissance.<br>**1974**: scint, EM and geol survey. | Inf: 620,700 lbs of $U_3O_8$ ***c 1957***<br>(SMDI 63–D–09–SW, U–1) | Bleasdell Lake is near the SE end of Reindeer Lake. The zone is 1,300' long and assays 0.09% to 0.2025% $U_3O_8$ over widths of 6.1 and 9.8'. |
| SASK. 22 | GEORGE LAKE<br>Compulsion River ML<br>64 E/5<br>57°28'30" 103°45'22" | F.g. sph, gal, py, po as dis and aggregates in witish-grey qtzites of the Early Proterozoic Compulsion River Belt which is part of the Wollaston Lake fold belt system. | **1965–66**: mineralized boulders found during prospecting; staking, geol mapping, geochem and geoph surveys; dd lead to discovery of mineralization in place. | Ind: 5,000,000 at 2.65% Zn, 0.38% Pb ***or*** 2,900,000 at 3.67% Zn, 0.53% Pb, to 400' ***1966*** (Econ Geol, Vol 65, p 869, 1970) | Property S of Wollaston Lake. In tonnage and grade calculations a 1% Zn cut–off was used for low–grade and 2% for high–grade.<br>Mineralization traced for more than 1.5 mi along strike to SW. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 23 | RAVEN & HORSESHOE<br>Cameco<br>64 L/4<br>58°09'00" 103°45'35" | At eastern rim of Athabasca sandstone near Rabbit Lake mine; similar setting in that uranium deposited in altered envelope surrounding fractured zone in Aphebian metasediments. Uraninite, pitchblende, uranophane, py, cp, bornite in fractures and dissem in altered graphitic qtzite and biotite gneiss. | **1969**: airborne rad and EM surveys.<br>**1972–74**: ground geoph, prospecting, airborne EM, dd; Raven discovered in 1972, Horseshoe in 1974. | ***Raven***: 4 775 mt U<br>***Horseshoe***: 3 876 mt U<br>(SMDI 64–L–04–U3, U4) | Deposits, 6 km SW of Rabbit Lake, are subhorizontal, cigar-shaped, 800 m to 900 m long, up to 120 m wide and 150 m thick. May only be mineable by u/g methods. (NM 22/09/77) |
| SASK. 24 | COLLINS BAY<br>Cameco<br>64 L/5<br>58°15'45" 103°38'55" | The deposit occupies the E–dipping Collins Bay fault that has thrust Aphebian Wollaston Gp graphitic paragneiss against the Paleohelikian Athabasca Sandstone. The bulk of the mnr'n occurs in sandstone at the unconformable contact with basement gneisses.<br>The "A" zone is a high-grade pod of metal oxide and arsenides restricted to a thick lens of clay alteration. | **1968–72**: airborne rad, EM and mag and follow–up ground rad and geol surveys; soil sampling, trenching; dd identified "A" zone 1971.<br>**1978**: dd, found "B" zone.<br>**1979–80**: dd, found "D" zone; engineering and environmental studies.<br>**1983–85**: dev of "B" zone and modification of Rabbit Lake mill to accept the more complex ore. | ***A zone***: 148,500 at 5.69% $U_3O_8$<br>***D zone***: 127,800 at 2.19% $U_3O_8$<br>(NM 8/02/88) | The "B" zone is 1.8 km S of the "A" zone and 10 km NE of Rabbit Lake mine; "D" zone is within 610 m of "B" zone. Production from "B" zone began in 1986, following depletion of the Rabbit Lake orebody.Production to follow from "D" zone, c 1991, then from "A" zone; by o/p. |

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| SASK. 25 | DAWN LAKE<br>Cameco,<br>Cogema Can L<br>64 L/5<br>58°20'00" 103°55'50" | U mnrl'n in narrow and discontinuous zones, above and below contact of Athabasca Sandstone and underlying Aphebian Wollaston paragneiss at depth of 75–115 m. The 11 and 14 zones are in metapelite (graphite schist and gneiss) and contain pitchblende and coffinite dissem and as fracture–filling assoc with high Co, Ni, Cu and As values. | **1967–77**: airborne rad and magnetic survey, ground follow–up seismic, geochem, surficial geol, airborne EM.<br>**1978–79**: ground EM, dd of anomalies found U zones.<br>**1980–82**: dd, geochem, geoph.<br>**1983–85**: dd. | ***11 and 14 zones***: 30 to 40 million lbs at 2.0% $U_3O_8$<br>(SMDC 1983 AR) | Dawn Lake is well within the Athabasca Basin, 19 km NWof Rabbit Lake. |
| SASK. 26 | EAGLE POINT<br>Eagle South – Cameco<br>Eagle North – Cameco and Uranerz Expl and Mining<br>64 L/5<br>58°18'15" 103°38'30" | U mnrl'n, mainly pitchblende, occurs in lenses arranged in several narrow zones in altered Aphebian metaseds intercalated by granitic pegmatoids near contact of Helikian Athabaska Sandstone. | **1980**: discovered by Gulf Mnrls; dd intersected U mnrl'n.<br>**1982–86**: dd. | 3 356 912 mt at 1.53% $U_3O_8$ (Eldorado 1987) | Deposits about 13 km NNE of Rabbit Lake mine. |

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| SASK. 27 | McCLEAN LAKE<br>Canadian Occidental Petroleum L and Inco Mtls C<br>64 L/5<br>58°16′ 103°50′ | Seven U–bearing pods (30 to 260 m long) occur in two zones North and South at the unconformable contact of flat–lying Helikian Athabasca Sandstone on steeply–dipping Aphebian paragneiss of the Wollaston crystalline basement at a depth of 165 m.<br>Hosted by basal sandstone and the clay–altered (regolith) basement, pitchblende, coffinite and uraninite are assoc with other metallic mnrls in four facies: sul-phide, arsenide, bleached, and oxide. | **1975–78**: geol, geochem, geoph, dd.<br>**1979–80**: discovery dd, ground geoph.<br>**1981–82**: expl, dd; engineering environmental and pre–feasibility studies; u/g method of mng selected.<br>**1984**: permit granted by AEC for three year period to test u/g method.<br>**1986**: geoph surveys, dd. | 6 350 mt U at 1.8% $U_3O_8$ in 7 pods ***c 1980***<br>(CIM Bull, Apr/84 p 70) | Within Athabasca Basin 10 km W of eastern edge, the deposits lie 11 km NW of Rabbit Lake mine and 14 km E of Midwest Lake; tonnage and grade based on cutoff grade of 0.1% $U_3O_8$ over at least 5' thickness. Property optioned to Minatco L in 1985. |
| SASK. 28 | DUDDRIDGE LAKE<br>Thor Expls L<br>73 O/9<br>55°34′17″ 106°08′59″ | Pitchblende and uraninite as seams and disseminations along bedding planes in qtzite lenses within Aphebian carbonaceous meta–arkose close to the southern margin of the Precambrian Shield. The minrl'n is unrelated to the Athabasca unconformity. Also present are some sulphides, arsenides and tyuyamunite (a uranium calcium vanadate). | **1969–70**: airborne mag and rad survey; follow–up geol, mag, rad surveys and geochem soil sampling.<br>**1974–81**: discovery, airborne spectrometer survey, ground mag, dd, lake sediment sampling, basal till, track etch survey and a geoph survey. | 320,690 mineable at 1.84 lb/t $U_3O_8$ over 5' to 250' depth (cut–off 1.0 lb/t $U_3O_8$) ***1977***<br>(H M Jones 25/08/79 for Thor Expls L in VSE SMF 07/02/80)<br>***or*** pot: 6,000,000 at 2.0 lb/ton $U_3O_8$ ***1979***<br>(NM 16/10/80, p A27) | Sask Research Council (also Thor Expls L) established several Cu and U basal till anomalies in 1978; subsequent geochem survey indicated 2 additional Cu and U anomalies. Mr. W. Rauball optioned the property in Sept 1980, and planned an expl and dev program. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 29 | HOWARD (LITTLE CLAM) LAKE<br>Silver Chief Mnrls L<br>(c 1980)<br>73 P/5<br>55°17'50" 105°36'50" | Disseminated po, py, cp in small complex plutonic body (sill ?) composed of ultramafic rocks, gabbro, pyroxenite within NE–trending migmatite belt. Pentlandite reported in drill core. | **1965–71**: discovery, trenching, ground EM, mag, SP, dd.<br>**1977**: geoph survey. | 60,000 at 1.03% Ni, 0.44% Cu, 0.044% Co<br>***1979***<br>(SMDI 73–P–05–SE, Ni–1) | The deposit is 1,000' long x 6'–30' wide; and, at central part, 70' deep. |
| SASK. 30 | ELIZABETH LAKE<br>Benz Gold Res L (80%)<br>Cameco<br>73 P/6<br>55°20'17" 105°21'40" | Cp, py, po, mag, as disseminations and veins in three small zones that occur along fracture zones in biotite gneisses of the Early Proterozoic Western La Ronge Domain. Sphalerite was noted in drill core from small zones away from the main mineralized zones. | **1967–70**: discovery, ground EM and IP surveys, mapping, dd.<br>**1973**: geochem, IP, EM, dd.<br>**1981**: mag and EM surveys.<br>**1983**: minor geoph work. | Prob: 1,156,000 at 1.09% Cu in two zones (Bligh, R.P. 1971 ***in*** Benz Gold Res L Prospectus, 9/08/88) | Elixabeth Lake is located 24 km NNW of the village of La Ronge. The mineralization also contains some values in Ag (0.2–0.35 oz/t), Au, Zn and Pb. |
| SASK. 31 | NEMEIBEN LAKE<br>Benz Gold Res L (80%)<br>Cameco<br>73 P/6<br>55°19'27" 105°10'15" | Nickeliferous po, rare pn, cp massive basal accumulations in sheared areas in NW reaches of an elliptically shaped serpentinized ultramafic pluton approx 1 mi in diameter. The pluton intruded Early Aphebian supracrustal rocks. | **1944–1956**: staking, airborne and groundmag, trenching, mapping, IP, dd and EM conductor ind two Ni–bearing zones.<br>**1966–70**: restaking, airborne and ground EM, mag, IP, trenching, dd, economic evaluation.<br>**1972–74**: option to Studer ML, dd, gravity survey, EM, mag, self–potential.<br>**1985**: core analysis by SMDC ind Pt values. | ***(i) East (underground)***: 1,089,908 prov–prob at 0.41% Cu, 0.80% Ni, plus 523,500 possible ***or*** 2,273,975 prov–prob at 0.35% Cu, 0.61% Ni, plus 1,325,280 possible<br>***(ii) East ("open pit")***: 5,476,000 ind at 0.18% Cu, 0.34% Ni<br>***(iii) West ("open pit")***: 8,000,000 at 0.152% Cu, 0.233% Ni<br>***1973***<br>(NM 14/11/68 and WM Jan 1971, SMDI 73–P–06–SE Ni–2) | On the East zone, a portion of the "u/g" tonnage may have been included in "o/p" tonnage figure. Geochem work indicates additional "ore" on W edge of the pluton.<br>Locally significant Pt values ind in the rock. |

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| SASK. 32 | DEE NO. 1 (STUDER S + O NO. 13)<br>V Studer (in 1973)<br>73 P/7<br>55°22'35" 104°52'35" | En échelon Au-bearing qtz veins with asp & py in sheared gabbro close to its NW contact with supercrustals of the Early Proterozoic Western La Ronge Domain. | **1938–42**: discover, trenching; 2 X–ray holes drilled; milled some ore in a 2–ton mill.<br>**1954–73**: trenching and stripping. | 55 m x 475 m at 0.30 oz/t Au assuming continuous shearing between trenches<br>***c 1946***<br>(Sask OFR 84–1, p 52) | Showing at neck of large peninsula extending NE into Sulphide Lake. Zone trenched over a length of at least 170 m. |
| SASK. 33 | NORTH LAKE (CBS 7396)<br>Radcliffe Res L<br>73 P/7<br>55°30' 104°51' (approx.) | Au with py in qtz vein zones in qtzite host rock. | **1987–88**: geoph surveys, tr, dd, bulk sampling, metallurgical tests. | Geological 2,600,000 at 0.069 oz/t Au using a 0.04 oz/t Au cutoff and 6 m avg width<br>GCNL 14/02/89) | Potential o/p material; strip ratio 6.5:1. Located some 50 km NE of La Ronge; location uncertain. |
| SASK. 34 | PAP LAKE<br>Cameco,<br>Windarra Mnrls L,<br>Uranerz Expl & Mng L<br>73 P/7<br>55°24' 104°50'20"<br>("SW zone) | Au–bearing shear zones in qtz diorite and in gabbro contain concordant qtz veins and stringers. Cp, asp, py, rare gal and free Au are present. The area is part of the Early Proterozoic Western La Ronge Domain. | **1937–40**: staking, discovery, trenching, dd; 450 kg sample processed in small mill at nearby Preview mines operation.<br>**1949**: trenching, geol mapping.<br>**1959–65**: geol mapping, airborne geoph, EM and mag surveys.<br>**1979**: basal till sampling by SMDC.<br>**1985–89**: geochem and geoph surveys, tr, dd. | ***Pap A zone***: 560 T/VF at 0.152 oz/t Au<br>***c 1940***<br>(Sask OFR 84–1, p 53)<br>***PAP SW zone***: geological 544,200 at 0.36 oz/t Au<br>(NM, 10/04/89, p 24) | Mineralized zones lie on W side of Pap Lake, SW of Preview Lake, some 45 km NE of La Ronge. Within Lac La Ronge Provincial Park; unresolved questions regarding land use within the park. |

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| SASK. 35 | PREVIEW LAKE<br>Cameco,<br>Windarra Mnrls L,<br>Uranerz Expl & Mng L<br>73 P/7<br>55°25′ 104°49′ | Two en échelon Au–bearing zones assoc with sheared gabbroic sills intruding felsic volcanic–volcaniclastic rocks of the Early Proterozoic Western La Ronge Domain.<br>Py, asp, rare cp occurs in qtz veins and wallrock along a sheared contact between the sill and volcanics or in qtz veins in the sill. | **1937–40**: staking covered known showings; trenching, dd, sample testing; 9–ton mill treated ore from trenches.<br>**1941–42**: minor prod; closed in fall/42 due to hazardous mng conditions.<br>**1957–62**: EM and mag surveys, mapping, airborne geoph, prospecting, dd; 24 m adit and short x–cuts on Preview North.<br>**1979**: basal till sampling by SMDC.<br>**1985**: geoph and geochem surveys. | ***Preview North***: 200 to 250 T/VF at 0.35 to 0.40 oz/t Au in two zones.<br>***Preview South***: 130 T/VF at 0.50 oz/t Au over strike length of 230 m<br>***c 1940***<br>(Sask OFR 84–1, p 53) | The two zones occur W and SW of Preview Lake, some 45 km NE of La Ronge. Within Lac La Ronge Provincial Park. Premier South also known as PAP C zone. |
| SASK. 36 | SULPHIDE LAKE (STUDER)<br>Cameco<br>Denison ML<br>73 P/7<br>55°20′49″ 104°55′45″ | Three zones (A, B and F) lie equidistant along 2 000 m of lean iron fm (IF) that occurs in felsic volcanoclastics and intercalated sediments.<br>Additional zones (C, D and E), within the volcanoclastics, lie south of the IF band. Two zones are assoc with shearing. Au, asp, py, po, minor cp are assoc with small qtz veins and veinlets in carbonaceous argillite of the IF. | **1935**: Au–bearing gossan discovered.<br>**1939–40**: staking.<br>**1946–47**: HMB&S trenching (C,D, E zones), dd (A,B zones).<br>**1949–74**: periodic dd by Studer ML over A to E zones, mapping, EM, mag, blasting and stripping.<br>**1985–86**: dd. | ***(i) A and B zones***:<br>175,000 dd–ind at 0.22 oz/t Au<br>***(ii) C zone***: 18,000 dd–ind at 0.42 oz/tAu<br>***1960–61***<br>(Coombe, W, Feb/86 for Torex Mnrls L in SMF 38/86 VSE 06/03/86)<br>***or*** A and B zones: inf: over 1,000,000 at 0.066 oz/t Au<br>(GCNL, 24/02/86) | The known Au–bearing 'lean' iron formation extends several km westerly from the south arm of Sulphide Lake, some 35 km NE of La Ronge.<br>Zones up to 400 m long and 12 m thick; "A" zone extends to depth of 120 m. |

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| SASK. 37 | LA RONGE<br>73 P/8<br>55°24'30" 104°27'30" | Radioactive mineralization in pegmatite dykes and sills intruding Precambrian schists. Indicated mnrls include cryolite, pyrochlore–microlite, and secondary uranium mnrls. | **1946–56**: discovery, staking; acquired by La Ronge Uranium ML; radioactivity survey, trenching, sampling, dd, pilot mill and extraction plant construction.<br>**1967**: restaked by Drope Lake Expls, and building purchased from Sask government; ground rad, mapping, dd.<br>**1977**: claims lapsed. | Ind: 9,444,600 at 1.7 lbs (0.083%) $U_3O_8$ to 162'<br>***1954***<br>(John C Rodgers ***in*** Rex Manning Newsletter, 28/05/54) | Property at Drope Lake, NW of Lac La Ronge. O/p potential. The 1954 pilot mill project to work out a low cost extraction process was unsuccessful. |
| SASK. 38 | PITCHING LAKE<br>73 P/8<br>55°26'13" 104°08'20" | Three zones of nickeliferous po, py, cp and bornite mnrl'n as massive pods dissem blebs and fracture–filled veins in gabbroic and hornblende rocks of a small Lower Proterozoic mafic plug that has intruded metasediments. | **1924**: initial staking.<br>**1952–55**: restaked.<br>**1956–57**: air and ground geoph surveys, trenching, dd, large pit, shaft to 42' on "A" zone and adit 235' long to test "B" zone.<br>**1958**: restaked.<br>**1961–67**: ground EM and mag, mapping, sampling, dd. | Ind: 100,000 at 2.6% Cu<br>***1957***<br>(Sask Rept 70, 1962, pp 21, 22) | The tonnage figure has been calculated for the "A" zone which reaches a depth of more than 500'. |
| SASK. 39 | IVY<br>Scurry–Rainbow Oil L<br>(in 1979)<br>73 P/15<br>55°46'00" 104°57'30" | Ms & dis basal sulphs in pyroxenite and gabbro norite. Po-pn-cp, no PGE. | **1965–68**: staking, EM surveys, dd, IP, resistivity, mapping.<br>**1975**: EM, mag. | ***(i) Open–pit potential***: 4,262,400 ind at 0.295% Ni, 0.081% Cu<br>***(ii) Below "open –pit"***: 876,200 ind at 0.389% Ni, 0.093% Cu<br>***1968***<br>(Scurry–Rainbow Oil L 18/04/68, p 9, prospectus, OSC 25/04/68) | Property between Weaver and Gochager Lakes, 78 km NNE of La Ronge. Results of work indicated that grade and tonnage were insufficient to sustain a profitable operation. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 40 | FORK LAKES (JASPER & JAMES ZONES)<br>Cameco<br>Golden Rule Res L<br>Goldsil Res L<br>International Mahogany Corp<br>73 P/16<br>55°56′30″ 104°16′ | Au occurs in a 4 m to 20 m wide NE-trending shear zone in ganitoid rocks of the Island Lake pluton. | **1987**: discovery of Jasper zone and its continuation into adjacent Transom Lake property (James zone); stripping, sluicing, tr, dd.<br>**1988–89**: joint venture u/g dev, dd, metallurgical tests, negotiations for custom milling, final feasibility study. | ***Jasper Pond mineable***: 125 000 mt at 19.2 g/mt Au (6.7 g/mt cut–off)<br>***Transom Lake (James) prob geological***: 28 000 mt at 13.7 g/mt Au (Cameco, 1988 AR)<br>***or*** combined 175,000 at 0.72 oz/t Au (NM 13/06/88)<br>***or*** 178,000 at 0.46 oz/t Au (International Mahogany Corp, LS, 20/12/88) | Located about 1 km S of Fork Lakes between Broeder and Slushy Lakes, some 110 km N of La Ronge. Star Lake mill located 5 km N. |
| SASK. 41 | TAMAR<br>Cameco<br>Claude Res Inc<br>Shore Gold Fund Inc<br>73 P/16<br>55°58′15″ 104°17′25″ | Steeply–dipping shear-hosted Au zone, at least 300′ long and 100′ vertical (aver 0.21 oz/t Au over 7′ width) in shear zone striking NE at the offset contact of the Spar Lake pluton (diorite, qtz monzodiorite) and the supracrustal rocks. Au zones also in the Tamor Shear zone within the pluton. Shear zone contains qtz veins and lenses; py, minor cp in qtz and schist. | **1961–62**: prospecting, dd, geol mapping, pitting outlined an Au zone.<br>**1982**: Claude Res purchased property.<br>**1984**: dd.<br>**1986–87**: dd. | 40,000 at 0.21 oz/t Au ***1985***<br>(Duncan Bain for Little Bear Res L ***in*** SMF 51/86, VSE 02/04/86) | Property 112 km N of La Ronge, about 1 km SW of Star Lake mine. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 42 | JOJAY<br>Cameco<br>Claude Res Inc<br>Shore Gold Fund Inc<br>74 A/1<br>56°03'05" 104°15'30" | Po, cy, py, gal, native gold in qtz stringers and masses, and in silicified wallrock within brecciated and altered zone.<br>Mineralized "shoots" of 335 m x 30 m to 45 m occur in this fault zone, sub–parallel to the contact between mafic volcanics and sediments (probably volcaniclastic-derived). | **1940–41**: discovery; staked for Cominco; trenching.<br>**1945–47**: dd, trenching.<br>**1962**: dd.<br>**1967**: geol mapping, 1 ddh.<br>**1985**: geol, geoph, dd.<br>**1986–87**: dd. | Prob: 325,900 at 0.218 oz/t Au to a depth of 500'<br>(Shore Gold Fund Inc, May 88 News Release)<br>***or*** prob, poss: 145,000 at 0.26 oz/t Au to depth of 100 m<br>(Sask Mng Dev Corp, 1987 AR) | Property about 90 km N of Lac La Ronge. |
| SASK. 43 | TOWER LAKE EAST<br>Goldsil Res L<br>Golden Rule Res L<br>Cameco<br>74 A/1<br>56°12' 104°03' | An E–trending mineralized S zone at the northern contact of the Tower Lake Pluton and volcanics, about 50 m wide (within sheared mixed volcanics and granodiorite along N margin of pluton); Au mnrl'n assoc with shears and fracture zones along a fault subparallel to the Byers Fault; visible Au in narrow qtz stringers and thin talc chlorite shears; considerable fine Au in limonitic fractures. | **1961–63**: Au discovered by panning; geol mapping, dip needle survey, dd.<br>**1982–84**: surface expl, dd.<br>**1986**: dd, geoph surveys.<br>**1987–88**: dd, preliminary metallurgical tests and o/p design. | 1 531 000 mt at 0.10 oz/t Au to 100 m ***1985***<br>(GCNL 15/01/86 and 18/02/86)<br>***or*** shallow reserves of 850,000 at 0.13 oz/t Au<br>(Sask Mng Dev Corp, 1986 AR) | The zone is reported to have o/p potential, 0.1 oz/t over width of 40–50 m; also u/g tonnage (0.25–0.45 oz/t Au over widths of 3 m). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 44 | ROTTENSTONE L (HALL)<br>Claude Res L<br>Rottenstone Mng L<br>74 A/7<br>56°20'41" 104°49'30" | Dissem po, pn, cp, violarite, with sperrylite, sph, cubanite in shallow, flat-lying sill (45% sulph) of pyroxenite. | **1928**: staked showing, noted earlier by Indians.<br>**1929**: dd by Cominco outlined small lens.<br>**1946**: mapping by GSC including ore microscopy of Hall deposit.<br>**1950–54**: restaking, dd, detailed geol mapping, ground and airborne mag surveys.<br>**1957–62**: trenching, prospecting, mag and EM surveys, dd.<br>**1964**: acquired by Rottenstone Mng L.<br>**1965–69**: mining, milling (125 tpd); ground EM.<br>**1972–73**: Can Occidental Petr did airborne EM and mag surveys, geol mapping, lake silt sampling, dd.<br>**1975**: geol mapping by Sask govt.<br>***1987***: option by Claude Res L, VLF, mag surveys. | 40,000 at 3.23% Ni, 1.83% Cu, 0.14 oz/t Pt, 0.10 oz/t Pd, 0.03 oz/t Au, 0.20 oz/t Ag<br>***1960s***<br>(SMDI 958)<br>NOTE: 26,724 tons were hoisted for milling. | Rottenstone L lies about 176 km by road N of La Ronge.<br>The tonnage/grade figure cited was reduced by subsequent mining. |
| SASK. 45 | REEF (REEF LAKE)<br>Studer ML (in 1959)<br>74 A/8<br>56°19'19" 104°08'18" | A small sill–like body of gabbro 200' wide, exposed for 500', contains sparse disseminations of nickeliferous po. | **1954–59**: staking, trenching, ground EM and mag surveys; best assay from dd showed 0.94% Ni, 0.58% Cu.<br>**1964–66**: geochem, mag and EM surveys. | N/A Ni–Cu | Reef Lake is about 59 km W of the S end of Reindeer Lake. Considerable low–grade Ni–Cu mineralization has been reported.<br>(Sask Rept 100, p 27, 1965). |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 46 | BURBIDGE LAKE (BURR)<br>AGIP Res L<br>74 A/14<br>56°46′25″ 105°04′05″ | Stratabound and probably syngenetic uraninite, dissem as discontinuous lenses in steeply dipping calc-silicate rock; interbedded with meta-arkose and carbonate of Aphebian Wollaston Gp. Pitchblende and secondary U mnrls occur in veinlets in fractures and breccia. Mnrl'n traced for 500m SW of main showing. | **1953–55**: staking, stripping, trenching, dd.<br>**1969**: dd, trenching, prospecting, rad surveys. | Ind: 30,000 at 0.18% $U_3O_8$<br>***1975***<br>(Sask, L S Beck 11/71, p 8) | Burbidge Lake is about 128 km SW of Wollaston Lake. Dd suggests the mineralization terminates at c 500′ depth. |
| SASK. 47 | MAW<br>AGIP Res L (20%)<br>Cameco (20%)<br>Denison Ms L (40%)<br>74 H/6<br>57°28′30″ 105°29′00″ | Mnrl'n assoc. with alkaline granites. | **1982–85**: geoph, dd; metallurgical tests.<br>**1987**: geoph survey, dd. | 336,000 mt at 0.25% yttrium oxide ***1985***<br>(AGIP Can L, 1985 AR) | At Wheeler River, about 30 km NNE of Key Lake; metallurgical tests indicate low recovery rate; presently considered uneconomic. |
| SASK. 48 | McARTHUR RIVER<br>Cameco<br>Uranez Expl & Mng L<br>AGIP Resources L<br>74 H/10, 11<br>57°42′ 105°00′<br>(approx.) | U mnrl'n assoc with silicification in Helikian Athabasca sandstone near unconformity with Aphebian rocks. | **1982–84**: prospecting, soil gas sampling, auger tests, geoph surveys, dd.<br>**1985–88**: geoph surveys, petrographic and lithochemical studies, dd. | ***BJ zone*** geological: 875,000 mt at 11.48 kg $U_3O_8$/mt<br>(AGIP Canada L, 1986 AR)<br>***P2 zone*** poss: 1,034,000 mt at 0.67% $U_3O_8$<br>(AGIP Canada L, 1987 AR) | Drilling in 1987 on the BJ zone indicates the mineralization is discontinuous and unpredictable.<br>Located some 300 km N of La Ronge. Location uncertain. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 49 | WEST BEAR<br>Cameco<br>Noranda Expl CL<br>74 H/16<br>57°52′50″ 104°04′00″ | Mineralized zone (pitchblende, coffinite, sulphs) at unconformity between flat–lying Athabasca "sandstone" and underlying Aphebian Wollaston paragneiss; mnrl'n in "sandstone", in clay alteration zone along unconformity, and in py–chlorite–graphite schist below unconformity; most mnrl'n in the schist, between 17 m and 40 m below surface. | **1977–81**: rad erratics and soil sampling led to dd and discovery; delineation and evaluation of deposit. | 425 mt U at 0.34% U plus some Ni, Pb and Ag<br>***1980***<br>(GSC Paper 81–20, p 18) | **Deposit about 40 km SW of Rabbit Lake mine; tonnage and grade reported before NE end of deposit completely delineated.** |
| SASK. 50 | SAND LAKE (STUDER)<br>AGIP Res L<br>Cameco<br>74 I/1<br>58°03′30″ 104°12′00″ | Mnrl'n related to pre–Athabasca unconformity at a depth of c 200 m. | **1983–84**: prospecting, geoph, dd. | Geol: 118 000 mt at 2.3% $U_3O_8$ (2 600 mt U)<br>***1985***<br>(AGIP Can L, 1985 AR) | **About 32 km SW of Rabbit Lake mine; the Studer–Umpherville joint venture (SMDC 40%, CEGBE 20%, Noranda 20%, AGIP 10%, Texaco 10%).** |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 51 | CIGAR LAKE<br>Cigar Lake Mng Corp<br>Cameco (50%)<br>Cogema Can L (33%)<br>74 I/2<br>58°11'04" 104°32'32" | A flat–lying elongated U–bearing lens, 1 800 m long x 25 m to 105 m wide, 5 m to 30 m thick at an avg depth of 430 m straddles the unconformity between the overlying Paleohelikian Athabasca Sandstone and near vertical graphitic fms of the Aphebian basement complex. Uraninite associated with Ni–Co sulfo–arsenides occurs mainly in the Sandstone; a halo of intense hydrothermal alteration surrounds the main zone, hosted by weak rocks with a high clay content. | **1969–70**: prospecting, photo–geology, aeromag, airborne spectrometer survey, ground reconnaissance.<br>**1977, 1980**: airborne geoph, lake sediment geochem, prospecting, dd.<br>**1981–85**: discovered 1981 by geochem and geoph, dd; pre–development work including studies; hydrogeological, borehole, lab, rock weakness, radiation levels, environmental studies.<br>**1988–89**: shaft sinking for test mining project. | Dd–ind: 110 000 mt U (grade 12.2% U) ***plus*** inf: 38 000 mt U (grade 4% U)<br>***1984***<br>(SMDC 1984 AR) | Cigar Lake deposit lies 55 km SW of Rabbit Lake mine; discovered by using surface EM to detect graphitic conductors; plan to carry out feasibility studies and determine u/g methods needed to bring into production by early 1990s. |
| SASK. 52 | MIDWEST LAKE<br>Denison Ms L (45%)<br>Uranerz Expl & Mng L (20%)<br>Bow Valley Ind (20%)<br>Numac Oil & Gas L<br>74 I/8<br>58°18'20" 104°05'20" | Mineralized zone (3 800 m long, up to 150 m wide x 120 m thick) along unconformable contact of Helikian Athabasca Sandstone upon Wollaston paragneiss basement, about 200 m below surface. Mnrl'n as pitchblende–nickeline masses within clay masses near unconformity; as fracture filling in altered basement and sandstone; also dissem bordering fractures, in matrix, and coating qtz grains. Other metallic include Ni–Co arsenides, gal, sph, cp and Mo. | **1968–74**: Numac Oil acquired permit, airborne rad survey and geochem sampling in area of radioactive boulder train, seismic mag, EM and gravity surveys, trenching, dd, radon sampling.<br>**1977–78**: discovery of U deposit by Esso Mnrls Can during dd program.<br>**1979–80**: environmental, mng, milling and metallurgical studies, dd.<br>**1987–89**: feasibility study, shaft sinking for test mining, dd. | Dd–ind: 2 000 000 mt at 1.25% $U_3O_8$, a little Ni, Co, Ag over 2 300 m strike length (cut–off 2 lb/t $U_3O_8$ over 2 m)<br>(NM 06/09/79, p 23)<br>***includes***: 38,000,000 lbs $U_3O_8$ dd–ind at 2.26% $U_3O_8$ recoverable by o/p methods<br>(Bow Valley, 1982 AR) | Midwest Lake within Athabasca Basin, about 24 km NW of Rabbit Lake mine. Deposit contains 75–80 million lb $U_3O_8$, 60 million lb Ni, 7 million lb Co (Bow Valley Ind L Interim Rept 30/16/80). Production decision is expected in 1990 with startup prob. in 1993. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 53 | CLUFF LAKE<br>Amok L (80%)<br>Cameco<br>74 K/5,6<br>58°22′12″ 109°29′15″<br>("N" deposit) | U deposits within Carswell circular structure, hosted, with one exception, by Archean/Aphebian gneiss core, surrounded by Helikian Athabasca sediments; regolithic and hydrothermal chlorite alteration.<br>"N" orebody is a series of discontinuous mn'zed fractures cut by faults within strongly altered mixed gneisses and granitoids of Base River complex; uraninite, Pb and Cu sulphs, selenides plus coffinite halos and qtz-pitchblende veinlets. | **1967–80**: airborne gamma spectrometer survey followed by ground reconnaissance discovered pitchblende–bearing boulders in 1986. Additional techniques used to discover in situ deposits included ground spectrometer, mag, IP, EM, gravity, seismic, radon soil gas survey, overburden drilling, dd; trenching geol mapping.<br>**1981–86**: prod from o/p and u/g mines; expl included geoph, geochem, drilling. | (i) ***NRF deposits***: 1,428,000 at 0.35% U ***1978*** (GSC p 81–20, pp 5, 38)<br>***or***<br>***N deposit***: 505,000 at 0.34% U ***1985*** (GAC Spec Paper 29, 1985, 13) | Cluff L lies S of Lake Athabasca; major deposits in Carswell structure along S–SW perimeter of metamorphic core; producing mines in 1985: Claude, OP and Dominique–Peter, the "D" has been mined out.<br>The Dominique– Janine a new near– surface (o/p) deposit (200 m x 70 m) discovered in 1984 in basement rocks. |
| SASK. 54 | DOMINIQUE-JANINE<br>Amok L (80%)<br>Cameco (20%)<br>74 K/5<br>58°22.7′ 109°31.5′ | Near-surface mnrl'n, c 200 m by up to 70 m wide, in basement rocks. | **1984**: disc, percussion drilling.<br>**1986–87**: dd. | 1,000,000 at 0.5% $U_3O_8$ ***1987*** (SMDC 1987 AR) |  |
| SASK. 55 | MAURICE BAY<br>Uranerz Expl & Mng L<br>Cameco<br>74 N/5<br>59°23′ 109°54′ | U deposit, under 20 m of overburden on NW rim of Athabasca Sandstone in area of Aphebian basement unconformity. Pitchblende fills fractures, is diss and occurs as aggregate or pods along and above the unconformity and within the basement rocks, especially along and near faults; little or no clay alteration at unconformity. | **1969–76**: Expl included geol, airborne and ground rad reconnaissance plus photogeological study, EM, IP and resistivity work, but no showings were found.<br>**1977–79**: U showing discovered in 1977, dd. | Main zone core: 577 mt U at less than 0.42% U ***1979*** (GSC Paper 81–20, p 5) | The deposit (contains 3 zones) is on the NW shore of Lake Athabasca about 5 km E of the Alberta border; contains approx 2 million lb $U_3O_8$ (NM 17/07/81, p C20).<br>Avg dimensions, Main zone: 1 500 m long, 60 m wide, 20 m thick. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 56 | BOX MINE<br>Cominco L<br>Greater Lenora Res Corp<br>74 N/7<br>59°27'18" 108°31'13" | Granite sill-like body 2,000' long, 120' wide, intruding Tazin Group qtzose metasediments. The sill is cut by a stockwork of qtz veins containing py with associated Au, gal, sph, cp and minor free Au; mnrl'n also dissem in host granite. | **1934–42**: discovery, staking, sampling, dd, 2 shafts, 500' depth with 3 levels, u/g dev included stoping and dd; treated 1,400,000 at 0.045 oz/t Au in 1,000 tpd mill in 1939–42.<br>**1976**: dismantling headframes and the mill building.<br>**1987–88**: dd, bulk sampling, metallurgical tests. | Prob, poss: 13,700,00 at 0.052 oz/t Au, o/p material<br>(Lenora Explns L, 1987 AR) | Mine on N shore of Lake Athabasca near Goldfields. RJK Mineral Corp option to acquire 60% of the Greater Lenora interest. Prefeasibility study based on a combined operation with the nearby Athona property. |
| SASK. 57 | GULCH MINE<br>Calpine Res Inc<br>74 N/7<br>59°26'38" 108°51'32" | Pitchblende in veinlets in meta-argillites and qtz-feldspar gneisses, "red-altered" and brecciated, on the footwall of the Black Bay fault. Variable amounts of py, carbonate and graphite occur in the veins plus small amounts of cp, gal, and smaltite. | **1953–57**: geol mapping, rad surveys, trenching, sampling; dd in 1954 found pitchblende; shaft sunk from adit to depth of 831' with 3 levels plus lateral work and u/g dd.<br>**1967–68**: geol and geoph surveys and dd by Gunnex L and Gulch ML.<br>**1974–75**: underwater rad anomalies tested by dd; intersected U values.<br>**1988**: Kelmet Res L, option. | 201,000 dd-ind at 0.09% $U_3O_8$ (cut-off 0.05%) and 315,000 poss at same grade<br>***1975***<br>(Gulch Ms Inc, 1975 AR) | The Gulch mine is on the Crackingstone Peninsula along the Black Bay fault, 19 km SW of Uranium City. Re-evaluation in 1975 of previous u/g dd resulted in tonnage and grade figures. |
| SASK. 58 | LORADO MINE<br>Conwest Expl CL<br>74 N/7<br>59°29'34" 108°39'57" | The main zone contains pitchblende, py, cp, associated with fracturing along base and limbs of synclinal body of graphitic schist of the Tazin Group. A large mass of pyritized graphitic schist with widely scattered pitchblende lies on the footwall side of the main zone. | **1950–60**: staking, dd, shaft to 700' with 4 levels; milling 1957–60 of 95,000 at 0.19% $U_3O_8$ reached capacity of 800 tpd; sulphuric acid unit was also operated. | ***(i) Main zone***: 19,335 mineable at 0.18% $U_3O_8$ plus 202,893 probable at 0.175% $U_3O_8$ ***1960***<br>***(ii) Pyrite zone***: 3,000,000 at 26% pyr to 500' level ***1954***<br>(Lorado Uranium ML, 1960 AR; FP Corp Serv 22/02, 23/04, and 26/07/56) | The mine is on Beaverlodge Lake, 10 km SSW of Uranium City. Mine closed in 1960 after sales contract was sold to Eldorado. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 59 | STEWART ISLAND<br>Cameco<br>74 N/7<br>59°19'31" 108°54'12" | Three small high–grade lenses containing blebs and veinlets of pitchblende in orthoqtzite of Athabasca Fm of Helikian age. Main zone is 800' S of, and 300' vertically above Athabasca– Tazin unconformity. | **1955**: radioactive boulders discovered.<br>**1958**: detailed prospecting revealed mineralized lens.<br>**1960**: dd discovered another lens to depth of 15'<br>**1967–68**: geol and rad work, ground mag, EM and dd of main zone. | Ind: 4,000 at 0.5% $U_3O_8$ to shallow depth<br>(FP Surv Ms 1969, p 200)<br>***or***<br>***Main zone***: 2 324 mt at 0.396% U (9.2 mt U)<br>***c 1969***<br>(GSC Paper 81–20, pp 5, 42) | Stewart Island is in Lake Athabasca about 32 km SW of Uranium City. |
| SASK. 60 | ATHONA MINE<br>Greater Lenora Res Corp<br>New Athona ML<br>74 N/8<br>59°26'45" 108°29'05" | Two Au–bearing zones of similar attitude and mineralogy occur in the Athona granite: the "main" zone, cut off by the amphibolite to the S, consists of narrow parallel qtz veins with feldspar and chlorite and some py, sph, gal, cp, asp, po, mo and native Au. The "East" zone is 900' to the E near a NNE–trending fault. | **1934–39**: discovery, prospecting, trenching, dd; 2 shafts and winzes to depths of 112' and 378', two levels, drifting, crosscutting and raising. Mined 5,115 tons for sampling and mill testing.<br>**1980–81**: heap leach and metallurgical bulk sample tests by Discovery Ms L.<br>**1987–88**: dd, bulk sampling, metallurgical tests. | Prob, poss: 5,500,000 at 0.064 oz/t Au o/p material<br>(Lenora Explns L, 1987 AR) | Athona adjoins the Box mine property.<br>AJK Mineral Corp option to acquire 60% of the Greater Lenora interest. Prefeasiblity study based on a combined operation with the adjacent Box mine. |
| SASK. 61 | FISH HOOK BAY "A" ZONE<br>Cameco<br>74 N/8<br>59°27'25" 108°23'35" | Shear and fractures in qtzite erratically mineralized with calcite, chlorite, hematite, pitchblende cp, py, gal and nolanite (Fe–vanadate). | **1945–48**: surface prospecting discovered numerous anomalies in area; trenching sampling, dd.<br>**1982**: geol, geochem, ground mag, Winkie drill. | ***(i)*** 55' x 4.6' at 0.34% $U_3O_8$<br>***(ii)*** 71' x 4.2' at 0.21% $U_3O_8$<br>***(iii)*** 25' x 4.2' at 0.26% $U_3O_8$<br>***c 1945–48***<br>(Sask Rept 126, p 95, 1969) | Fish Hook Bay about 10 km E of S end of Beaverlodge Lake; three en échelon zone shoots outlined by surface sampling. Drilling indicated zone of fractures intermittently mineralized for 800' length. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 62 | FISH HOOK BAY "B" ZONE<br>Cameco<br>74 N/8<br>59°28'02" 108°24'37" | Stringers, pods, disseminations of pitchblende accompanied by hematite, gal, nolonite (Fe–vanadate) in graphitic shear zone on hanging wall of brecciated ferruginous and dolomitic qtzite of the Tazin Group. | **Pre–1945**: staking, prospecting, geol mapping resulted in discovery of many radioactive anomalies by Eldorado.<br>**1945–48**: dd outlined "B" zone.<br>**1957**: Black Bay Uranium L lease, shaft to 618' adit.<br>**1960**: shipped 6,496 tons ore to Eldorado mill.<br>**1986–88**: tr, dd for gold and platinum values. | 100,000 at 0.22% $U_3O_8$ to 240' ***1957***<br>(Sask Rept 126, p 63, 1969) | The contract to ship ore to Eldorado mill was terminated in 1960 due to high vanadium content, and the operation was closed down. |
| SASK. 63 | SHOWING NO 45–SH–10<br>74 N/8<br>59°27'40" 108°23'50" | Pitchblende as isolated grains and small veinlets in several of the carbonate veins in fractures in sheared ferruginous dolomite. | **1945–48**: prospecting, trenching, sampling. | ***(i)*** 60' x 3.2' at 1.01% $U_3O_8$<br>***(ii)*** 30' x 3.6' at 0.67% $U_3O_8$<br>***(iii)*** 50' x 3.3' at 0.15% $U_3O_8$<br>***c 1945–48***<br>(Sask Rept 126, p 95, 1969) | These are shoots exposed in trenches about 2,000' NW of Fish Hook Bay "A" zone. |
| SASK. 64 | ARTY<br>Cons Marbenor ML (pre–1969)<br>74 N/9<br>59°42' 108°25' | Radioactivity mainly in alaskitic granite in a fracture zone between granite and amphibolite. No U mnrls visible. | **1950s**: dd. | 500' x 5' at 0.15% $U_3O_8$ ***pre–1969***<br>(Sask Rept 126, p 95, 1969) | Arty claims about 16 km NE of Uranium City. Dimensions of deposit outlined by drilling; deeper drilling was recommended due to persistence of structure. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 65 | ELDORADO BEAVERLODGE (ACE–FAY–VERNA–DUBYNA)<br>Cameco<br>74 N/9<br>59°34' 108°25.4'<br>(Verna mine) | Veins containing pitchblende fill fractures and breccia zones in cataclastic rocks; vein-type Bodies are parallel to the St. Louis fault, which separates the host rocks from alaskite granite and paragneisses. | **1946**: first discoveries.<br>**1953–82**: prod more than 43 million lbs $U_3O_8$ from 11 million tons treated from several mines. | Meas & ind: 3,600,000 at 0.207% $U_3O_8$ to 34th level ***end 1980***<br>(CMH 1981–82, p 131) | Upwards of 400,000 tons was mined after this T–G estimate.<br>Increasing costs, lower uranium prices and uncertain markets made further exploitation uneconomic and brought about the decision to close on June 30, 1982. |
| SASK. 66 | JIM & GAL, ZONE 1<br>Camdeck ML (in 1954)<br>74 N/9<br>59°35'58" 108°29'58" | Metasomatic granite with inclusions of qtzite and amphibolite; U–bearing shear zones associated with the Edie fault; one zone contains carbonate stringers in brecciated granite; two other zones in breccia at footwall of diabase dyke. | **c 1954**: dd. | 300' x 3.5' at 0.31% $U_3O_8$ ***c 1954***<br>(Sask Rept 126, p 92, 1969) | This was the result obtained by drilling in the uppermost of 3 zones intersected. |
| SASK. 67 | PAUL ZONE 2<br>Pippin Mng & Uranium Corp (c 1963)<br>74 N/9<br>59°35'20" 108°28'32" | Pitchblende, secondary U mnrls, py, hematite and calcite in fractures in granitized argillites. | **1949**: prospecting, discovery, trenching, dd.<br>**1959**: high grading, 28.5 tons at 2 + % $U_3O_8$ shipped. | 30 T/VF at 0.2% $U_3O_8$ ***pre–1969***<br>(Sask Rept 126, p 99, 1969) | Deposit 8 km ENE of Uranium City. About 200 tons of U–bearing rock broken during high-grading is near the trenches. |
| SASK. 68 | TOR (META URANIUM)<br>74 N/9<br>59°31'45" 108°29'01" | Two small "ore" shoots occur in Tazin qtzite on 350' level of the mine. At the surface minor pitchblende occurs in fractures in Martin Fm conglomerate and qtzite. | **1953–54**: Meta Uranium ML acquired Tor group, dd, adit, crosscut, drifting, prospect shaft to 377', lateral work.<br>**1955**: operations suspended. | 4,000 at 0.21 $U_3O_8$ ***1955***<br>(Sask Rept 126, p 77, 1969) | On Umisk Island in Beaverlodge Lake. Meta Uranium ML sold property to Eldorado Nuclear for cash and 2% royalty on prod. Meta changed name in 1976 to Metina Dev Inc. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 69 | VIRGIN LAKE<br>Norbaska ML (in 1982)<br>74 N/9<br>59°37'05" 108°27'35" | Pitchblende as veinlets in fractures in granitic gneisses of the Tazin Group. | **1953–56**: rad and geol surveys, dd, adit, cross-cutting, drifting, raising.<br>**1967**: rehabilitated adit, scint survey, dd.<br>**1982**: optioned to Sask Mng Dev Corp and AGIP Can L. | Ind: 11,000 at 0.34% $U_3O_8$<br>(C M Trigg 26/01/67 ***in*** TSE FS 1532, Norbaska ML, 1967) | Mineralized zone 7 km NNE of Uranium City. |
| SASK. 70 | CAYZOR<br>74 N/10<br>59°34'41" 108°38'24" | Small U–bearing shoots in zone of faults and fractures cutting granitized chlorite schists and impure qtzite of Tazin Group. Pitchblende and thucholite form pods, pockets and lenses along fractures. Carbonate is present; and gal is common in wall rocks. | **1949–52**: prospecting, geiger counter survey, trenching, discovered radioactive locations; dd from ice located high–grade fractures.<br>**1954–60**: shafts (main and internal ) to 800', six levels; shipped 90,000 at 0.27% $U_3O_8$ to Lorado mill 1957–60. | 10,000 at unstated % $U_3O_8$ above 5th level<br>***1960***<br>(Sask Rept 126, p 68, 1969) | Property 2 km NW of Uranium City. Orebody not mined out when mine closed in 1960 (due to closure of Lorado mill). Potential below 5th level unknown. Deepest hole, 85' below 6th level, assayed 2.66% $U_3O_8$ across 1'. |
| SASK. 71 | CHANCE LAKE (TOBE SHOWING 10–2)<br>Camox L (c 1977)<br>74 N/10<br>59°32'52" 108°43'12" | The Boom strike fault cuts granitized metasediments of the Tazin Group. Pitchblende–bearing carbonate and chlorite veins occur in red–altered gneiss on both footwall and hanging–wall of fault zone. Two low–grade radioactive lenses each 500' long were out-lined. | **1949–53**: discovered radioactive occurrences on concession, dd.<br>**1968**: Tobe ML did trenching and dd.<br>**1972**: dd and prospecting by Comox L. | Ind: 100,000 lbs $U_3O_8$<br>***1968***<br>(NM 24/04/69) | Tobe ML signed a conditional agreement in 1968 to deliver $U_3O_8$ to Metallgesellschaft AG of W Germany. First years delivery planned by "scalping" the surface. |
| SASK. 72 | FOLD LAKE, SHOWING NO 87<br>New Hosco ML<br>(in 1967)<br>74 N/10<br>59°37'31" 108°38'53" | A shear zone of red–altered and silicified amphibolite separates granitic gneiss from interbedded amphibolite and schist. The shear zone is erratically mineralized with py, cp and pitchblende. | **Pre–1959**: trenching, sampling, dd.<br>**1959**: high grading, 500 tons of rock broken, amount shipped not known. | 80' x 2.6' at 0.3% $U_3O_8$<br>***pre–1959***<br>(Sask Rept 126, p 97, 1969) | The showing is 6.5 km NW of Uranium City. Dimensions from surface work; dd revealed zone with low overall U values. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 73 | JIM<br>74 N/10<br>59°32'40" 108°39'40"<br>(Boundary) | Veinlets of pitchblende disseminated along 1,600' of sheared contact between siliceous mylonite and chlorite schist of Tazin Group, just NW of Black Bay fault. Two zones: "Boundary" vein in shear zone; and "Cinch" zone (possible continuation of veins from Lake Cinch mine). | **1950–52**: prospecting, dd.<br>**1968–69**: dd by Early Bird ML.<br>**1974–77**: Eldorado Nuclear L option, dd, rad survey, geol mapping, soil samples for radium analysis.<br>**1978**: expl agreement terminated by Eldorado because of indicated low potential for a significant tonnage of ore grade material. | Ind: ***(i)*** 44,600 at 0.22% $U_3O_8$, ***(ii)*** 26,400 at 0.11% $U_3O_8$ to 240' ***1977*** (NM 29/09/77, p 21) | Property at W end of Cinch Lake adjoining producing (1979) Lake Cinch mine. Possibility of mng border area from Lake Cinch u/g workings. Small amounts of near-surface material might be mined by o/p. |
| SASK. 74 | LAKE CINCH<br>74 N/10<br>59°32'29" 108°40'02" | Pitchblende calcite, hematite in brecciated and mylonitized zones and in fracture zones in the vicinity of the Crackingstone fault and the Main fault cutting Tazin gneisses of Archean or Proterozoic age. | **1948–60**: staking, geol surveys, dd, 1,096' shaft, 6 levels; 125,205 tons at 0.24% $U_3O_8$ produced 1957–60.<br>1966–69: dd outlined U zones on adjoining property (Enex).<br>**1974–75**: Eldorado Nuclear L purchased both properties, expl dd.<br>**1978–79**: purchased by Cenex L; 2,550' spiral decline to 375' vertical depth on 03 Zone (1,500' W of shaft); rad ore sorter installed; ore trucked (2,000 lbs/week) to Eldorado mill.<br>**1980**: purchased by A Frame Contracting L to process stockpile with the rad ore sorter. | ***(i)*** 300,000 at 0.2% $U_3O_8$ (after 39% dil) to 1,000' in Lake Cinch mine and to 300' in River zone ***1976***<br>***(ii)*** 15,000 at 8.4 lb/t $U_3O_8$ in Lethbridge zone, below the 300' horizon of the 03 zone ***1976***<br>(NM 11/11/76 and 03/02/77 and 06/09/79) | Property 5 km SW of Uranium City and 18 km by road from Eldorado Nuclear's mill. The WM April/79 reported 855,429 lbs $U_3O_8$ on 03 and 04 zones, just W of River zone. From this amount a total of 482,000 lbs in concentrates was shipped in 1979 to customers. At Lake Cinch mine an additional 712,375 lbs $U_3O_8$ potential was reported. A fire Feb/79 destroyed the power house leading to a working capital shortage. Cenex L was placed in receivership. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 75 | ORB ZONE 6A<br>Mokta (Can) Ltée<br>(in 1968)<br>74 N/10<br>59°36'05" 108°46'50" | Deposit on limb of anticline in amphibolite and red-banded paragneiss; fracture zone in the amphibolite is filled with carbonate, qtz, chlorite with minor pitchblende and py. | **1952–55**: sampling, dd, geiger counter work, inclined shaft to vertical depth of 50', some drifting.<br>**1958–59**: small amount of high-grading.<br>**1966–68**: part of claim block acquired by Mokta; airborne scint and ground follow-up. | ***(i)*** 300' x 26' at 0.336% $U_3O_8$ on surface<br>***(ii)*** 58' x 1.5' at 0.2% $U_3O_8$ on 50' horizon<br>(Sask Rept 126, p 82, 1969) | Deposit 10 km WNW of Uranium City; surface dimension and grade based on 9 channel samples across the zone. |
| SASK. 76 | PITCH–ORE<br>74 N/10<br>59°32'03" 108°33'19" | Area underlain by basaltic flows intercalated with sediments of Martin Fm. Pitchblende plus hematite, cp, clausthalite (Pb, Se), py, in calcite veins and fault where it cuts volcanics, and along volcanic–arkose contacts. | **1949–54**: claims purchased by Pitch–Ore Uranium ML, aerial photograph and geiger counter survey located radioactive occurrences, trenching, sampling, dd, adit, lateral dev and u/g dd, 50 tons shipped to Eldorado mill.<br>**1959–61**: property leased; some high grading, a few tons of ore broken but none shipped.<br>**1978–79**: scintillometer survey, sampling, re-interpretation of 1952 ddh. | Ind: 16,500 at 0.10% $U_3O_8$ ***1954***<br>(FP Surv Ms 1955, p 326) | Property on Beaverlodge Lake, E of Martin Lake and 5 km SE of Uranium City. Reportedly, closure in 1954 may have been prompted by the pitchblende being too finely disseminated for economic recovery. |
| SASK. 77 | ROSS ZONE (SHOWING 49–CC1–11)<br>74 N/10<br>59°32'35" 108°41'35" | Three mineralized, parallel faults cut slaty amphibolite, qtzite and granite. Vein material consists of qtz calcite, chlorite, hematite, pitchblende, py, cp. | **1949–51**: discovery, sampling, shallow dd.<br>**1959**: dd, some high grading.<br>**1968–69**: dd. | ***(i)*** 55' x 2.2' at 1.41% $U_3O_8$<br>***(ii)*** 120' x 3.7' at 0.36% $U_3O_8$<br>***(iii)*** 40' x 2.7' at 0.06% $U_3O_8$<br>(Sask Rept 126, p 87, 1969) | As indicated by sampling in surface trenches. Later dd of 5 X-Ray holes failed to encounter significant radioactivity. The Ross zone is located about 1.5 km W of the old Lake Cinch mine shaft. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 78 | SHOWING 50–CC1–128C<br>Rix–Athabasca<br>Uranium ML<br>(in 1959)<br>74 N/10<br>59°32'05" 108°41'40" | Pitchblende in fractures and secondary U stain in a breccia zone; heavily impregnated with hematite, on footwall side of fracture zone in qtz–feldspar gneiss. | **1947**: geol survey, discovery,<br>**1951**: trenching, dd.<br>**1959**: some highgrading. | 300' x 3.9' at 0.27% $U_3O_8$<br>(Sask Rept 126, p 89, 1969) | This small shoot was indicated by 6 ddhs. |
| SASK. 79 | GOLDFIELDS SHOWING<br>50–DD–10<br>Mokta (Can) Ltée<br>(in 1968)<br>74 N/10<br>59°31'50" 108°48'20" | Disseminated pitchblende in carbonate veinlets in two hematite–bearing fracture zones in a complex of paragneiss and migmatite in the hanging–wall of the Spot Lake fault. | **1951**: expl, discovery.<br>**1967–68**: scint survey, trenching, sampling. | 50' x 5.1' at 0.113% $U_3O_8$ ***c 1968***<br>(Sask Rept 126, p 95, 1969) | As indicated by channel sampling of the mineralized shoot. Deposit is at Black Bay, about 11 km SW of Uranium City. |
| SASK. 80 | GOLDFIELDS SHOWING<br>50–DD–97<br>74 N/10<br>59°32'57" 108°46'00" | Disseminated pitchblende in fracture zone in red altered paragneiss near Spot Lake fault. | **1951**: expl, discovery.<br>**1967–68**: scint survey and ground follow–up. | 50' x 3.8' at 0.236% $U_3O_8$ ***c 1968***<br>(Sask Rept 126, p 96, 1969) | The mineralized lens is exposed at the surface. Deposit S of Spot Lake, about 9 km SW of Uranium City. |
| SASK. 81 | SHOWING 50–TT–75<br>74 N/10<br>59°39' 108°35' | Paragneiss and granite contains thin bands of amphibolite. Pitchblende grains, qtz, calcite, hematite form lens where fault cuts a band of amphibolite. | **1950–55**: discovery, staking, dd.<br>**1959**: 11 tons high graded and shipped to mill by air.<br>**1967**: restaking, outlined rad showing; trenching, sampling. | 45' x 5.3' at 0.26% $U_3O_8$ ***pre–1959***<br>(Sask Rept 126, p 97, 1969) | As sampled at the surface. The showing is 8 km N of Uranium City. |
| SASK. 82 | SHOWING 55<br>74 N/10<br>59°31'34" 108°44'55" | Chloritized shear zone in qtz–feldspar gneiss contains calcite veinlets and erratically disseminated pitchblende in the calcite and sheared rock. | **1950**: trenching, sampling, dd. | 70' x 2' at 0.32% $U_3O_8$ ***1950***<br>(Sask Rept 126, pp 100–101, 1969) | Deposit 9 km SE of Uranium City; dimension and grade from sampling in trenches; one hole 30' below zone intersected 4' at 0.13% $U_3O_8$. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 83 | SHOWING 59<br>74 N/10<br>59°32'05" 108°43'50" | Thin coatings of pitchblende and secondary uranium mnrls in fractures along the contact of diabase sill in granite. | **1950**: trenching, sampling, dd. | ***(i)*** 40' x 4.2' at 0.2% $U_3O_8$<br>***(ii)*** 40' x 4.7' at 0.27% $U_3O_8$<br>***1950***<br>(Sask Rept 126, p 101, 1969) | Deposit 4 km W of Cinch Lake. Dimensions and grade from trenching and sampling. Drilling results disappointing as sill branches and thins at shallow depth. |
| SASK. 84 | SHOWING 111<br>74 N/10<br>59°32'38" 108°44'00" | Reddish qtz–sericite–chlorite–schist in hanging wall of the Boom fault contains fracture zone where pitchblende is irregularly disseminated in short calcite veinlets and in red–altered wallrock fragments. | **1950**: channel sampling, dd. | 230' x 2.1' at 0.18% $U_3O_8$<br>***1950***<br>(Sask Rept 126, p 101, 1969) | Deposit 4 km W of Cinch Lake. Dimension and grade from channel sampling; weak radioactive zones 0.05% from drilling but one intersection graded 0.31% $U_3O_8$ across 1'. |
| SASK. 85 | VOY<br>74 N/14<br>59°47'10" 109°07'30" | Numerous pitchblende–bearing zones, mainly fracture fillings containing calcite, qtz hematite, minor chalcocite, covellite, native Cu; zone 5 contains calcite veins, specularite, hematite and visible pitchblende in shear zone in red–altered granite gneiss and amphibolite. | **1953–55**: geol mapping, trenching, dd, short adit and lateral work, prospecting by New Mylamaque Expls L.<br>**1969**: ground scint, topo and geol surveys. | ***(i)*** 40' x 3.6' at 0.38% $U_3O_8$<br>***(ii)*** 65' x 3.1' at 0.66% $U_3O_8$ ***c 1953***<br>(Sask Rept 126, p 98, 1969; SMDI MD 74–N–14–SE, U–2 and U–4) | As sampled on the surface. Property on Laird Is in Tazin lake about 32 km NW of Uranium City. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 86 | FOND–DU–LAC<br>Cameco<br>74 O/6<br>59•18'05" 107•10'15" | A high–grade core (390 m x 10 m –40 m) containing pitch-blende, coffinite and uraniferous goethite in steeply–dipping fractures in Athabasca Sandstone, surrounded by an irregularly shaped low–grade aureole up to 350 m wide containing pitchblende inclusions in goethite; clay alteration is not extensive; most of the mnrl'n is near but not at the basement unconformity; pitchblende is assoc with qtz, hematite, goethite and siderite. | **1967**: helicopter–borne rad survey located rad boulder train.<br>**1969**: dd revealed in–situ mineralization.<br>**1974–79**: dd, airborne and ground EM surveys, mag, IP, gravity and geochem surveys.<br>**1982**: feasibility study. | 1,000,000 lbs $U_3O_8$ (385 mt U) (aver grade less than 0.25%) ***1980*** (CIM Bull, May 1982, p 84) | Deposit on S shore of Lake Athabasca about 3 km SE of the hamlet of Fond–du–Lac, within Athabasca Basin 0.5 km S of the N rim. |
| SASK. 87 | ELA<br>74 O/7<br>59•18'30" 106•34'00" | NW-SE trending Au–bearing fracture zone, 215 m x 3.5 m, containing qtz lenses with py and asp, is hosted in garnet-qtz-feldspar gneiss of the Archean (?) Tantato Domain. | **1935–36**: discovery, trenching prospect shaft.<br>**1950–52**: prospecting, staking, sampling, mapping; dd three short holes.<br>**1972–74**: restaking, trenching, sampling. | 36.6 m x 1.2 m at 0.51 oz/t Au (60 m length, if shaft included) ***1952*** (Sask OFR 84–1, p 32) | Showing 2.5 km ENE of Algood Bay, Lake Athabasca. |
| SASK. 88 | CURRIE LAKE<br>74 O/8<br>59•22'30" 106•03'40" | Nickeliferous po, cp, py, mag diss & ms in PC norite band; also concentrated in fractures and shear zones that parallel the E–W structural trend. | **1953**: staking, trenching, sampling.<br>**1957**: airborne mag, EM and rad surveys, dd.<br>**1965**: Torwest Res (1962) L outlined 2 parallel zones by dd.<br>**1969**: Inexco Mng C prospected for uranium. | ***(i) Upper zone***: 5,900 at 1.93% Ni to 40'<br>***(ii) Lower zone***: 42,500 at 0.71% Ni to 100'<br>1965<br>(SMDI 74–0–08–SE, Ni–3) | Property near E end of Lake Athabasca, N of Fond–du–Lac. Part of Inexco Mng C Permit No 6 in 1969, but no examination of sulphide deposits at that time. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 89 | ACHAK<br>74 O/12<br>59°39'10" 107°55'08" | Norite body intruding PC granite gneiss contains po as cementing material, fracture fillings and disseminations. A little cp, sph and mo are present. | **1936–42**: staking, prospecting, trenching, dd.<br>**1951–52**: mag and geol survey, dd to test depth.<br>**1965**: acquired by Tremar, ground mag, trenching, sampling. | Ind: 1,500,000 tons up to 0.6% Ni ***1942***<br>(Sask Rept 36, p 97, 1959) | Property N of Dinty Lake about 38 km ENE of Uranium City. |
| SASK. 90 | NISTO<br>74 P/3<br>59°12'40" 105°26'50" | Paragneisses and sills of metagabbro and amphibolite on the hanging–wall side of the Black Lake fault with sandstones of Athabasca Fm on footwall; mineralized fractures in 2,500' x 500' area with veins containing hematite, calcite, qtz, pitchblende, cp, py, gal occur in gneisses. | **1948–53**: discovery, trenching, surface and u/g dd, two adits and lateral work.<br>**1959**: high grading, 500 tons shipped to Lorado mill.<br>**1966**: airborne and ground scint surveys and geol survey by Mokta Can L. | ***(i)*** 513' x 2.5' at 0.199% $U_3O_8$<br>***(ii)*** 256' x 2.55' at 0.55% $U_3O_8$<br>***(iii)*** 120' x 3.97' at 0.208% $U_3O_8$<br>***(iv)*** 26' x 2.5' at 0.612% $U_3O_8$<br>***(v)*** 14' x 2.5' at 0.123% $U_3O_8$<br>**plus**<br>10 additional surface zones<br>***c 1948–49***<br>(Sask Rept 126, p 79, 1969) | As sampled on surface. Property at W side of Black Lake. Results of drilling and u/g work were not encouraging. Two of the u/g zones were more erratically mineralized than on surface. Amok L dd a hole in 1968 to test depth to unconform-ity; no radioactivity encountered in the hole. |
| SASK. 91 | AXIS LAKE<br>Colchis Res L<br>(in 1986)<br>74 P/5<br>59°20'47" 105°59'50" | Massive to disseminated po and py with minor cp in shear zone in siliceous phase of norite body that intrudes gneisses and schist of the Tazin Group. Mineralized zone 15' to 20' wide traced 3,600' and still open to west. | **1929–30**: gossan area with Ni–Cu values discovered, staking, dd at least 5 holes.<br>**1934–35**: dd.<br>**1952–56**: staking, mag survey, dd.<br>**1957**: airborne mag and EM.<br>**1965**: ground EM, dd.<br>**1982**: sampling, tr. | 3,750,000 at 0.6% Ni, 0.6% Cu, 0.15% Co ***1930***<br>(Sask Rept 36, p 99, 1959) | Property near E end of Lake Athabasca, N of Fond-du-Lac. By 1965 drilling outlined 2 shallow, 150'–300' deep, zones: Main 3,000' x 15' at 0.66% Ni, 0.35% Cu, 0.02% Co; West 2,000' x 19.4' at 0.56% Ni, 0.10% Cu, 0.02% Co. Drilling in 1955 tested main zone to 1,000' depth. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 92 | PLUTO BAY AREA<br>74 P/6<br>59°19'08" 105°03'35" | Shallow meta sedimentary synclinal structure (3 mi x 7 mi) with Mo occurrences and radioactive pegmatites distributed around the syncline, and to the N and S in the surrounding granite and qtz-monzonite body. Radioactivity due to disseminated uraninite and secondary U–bearing mnrls. | **1949–50**: prospecting discovered radioactive pegmatites.<br>**1975–77**: acquired by Kintla Expls L, trenching, sampling.<br>**1979–80**: silt sampling, geol, dd.<br>**1981–82**: biogeochem program. | 1,900,000 T/VF at 0.80 lbs/t $U_3O_8$ ***1975***<br>(NM 09/10/75) | Pluto Bay is located on N shore of Black Lake, E of Lake Athabasca. The T/VF figure is the amount of uranium estimated in the rim of the entire structure. |
| SASK. 93 | CORRIGAN<br>74 P/7<br>59°20'00" 104°54'00" | In Charlebois L area U–bearing lit–par–lit type pegmatite bodies occur at contact zones between metamorphic rocks of Tazin Group and granitic intrusions. Microscopic grains of uraninite are associated with the biotite. | **1949–52**: radioactive pegmatites discovered, trenching, sampling, mapping, scint survey.<br>**1955–56**: expl of pegmatites, dd. | Ind: 200,000 at 0.1 + % $U_3O_8$<br>(NM 17/05/56) | Property 5 km S of Charlebois Lake, at Guppy Lake. |
| SASK. 94 | MOZZIE LAKE AREA<br>74 P/7<br>59°24'00" 104°30'35" | *Radioactive pegmatites in* areas of qtz–feldspar–biotite gneiss. | ***1966–67***: anomaly discovered by airborne scint survey; dd.<br>**1968**: rad and geol surveys, dd. | ***(i) Zone 20A***: 204,200 ind at 0.119% $U_3O_8$<br>***(ii) Zone 1500' NE of 20A***: 4,100 at 0.087% $U_3O_8$<br>***1968***<br>(Numac Oil & Gas L, 1968 AR, Sask SMDI 74–P–07 NE, U–22) | The drilling was carried out at Mozzie Lake, E of Charlebois Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| SASK. 95 | ROW GROUP<br>74 P/7<br>59°23'40" 104°51'50" | In Charlebois Lake area U-bearing pegmatite bodies occur along contact zones between metamorphic rocks of Tazin Group and granitic intrusions. On Row group mineralization is fine-grained uraninite, locally thorianite, a little mo and po. | **1949–52**: staking, prospecting, trenching, dd.<br>**1968–69**: examined by Dejour ML, claim lapsed.<br>**1974**: Fosago Expls L held ground in CBS 2697. | Ind: 432,000 at 0.06% $U_3O_8$ equivalent; to dd depth of 250' ***1952*** (GSC EG 16, p 211, 1962) ***or*** 4,500,000 lbs U in rock containing 0.015% $U_3O_8$ to a depth of 305 m (Sask Asmt Rept 74 P–07–0054) | The Row group is located near S end of Charlebois Lake.<br>– May be on the Sun group, some 1.5 km E of the Row group. |
| SASK. 96 | SPRECKLEY LAKE M–13 ANOMALY<br>Anglo–Bomarc ML<br>Thor Expls L<br>(in 1979)<br>74 P/7<br>59°28'20" 104°50'00" | U–Mo bearing pegmatites along contact zones between metamorphic rocks of Tazin Group and granitic intrusions. | **1951**: radioactive anomalies found by scint survey, dd.<br>**1967**: Copper Range Expl C (Sask) Inc, acquired property; geol and scint surveys, dd.<br>**1977**: ground optioned by Thor Expls and Anglo–Bomarc ML. | 141,300 at 0.073% $U_3O_8$ over 11.1' ***or*** 72,700 at 0.13% $U_3O_8$ over 6.7' ***1967*** (L S Beck, 03/02/72, written commun) | Spreckley Lake is immediately NW of Charlebois Lake. The $MoS_2$ generally grades 0.05%. |

# BRITISH COLUMBIA

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 1 | BASIC<br>Hunter Point Expls L<br>82 E/1<br>49°01' 118°02' | Claims underlain by a serpentinized ultamafic plug within the Middle Jurassic Elise Fm. andesite near southern edge of the Tertiary Coryell Batholith. | **1971–73**: 2,200' dd. | 20,000,000 at about 0.2% Ni ***1974*** (VSE SMF 07/74, Chromex Nickel ML) |  |
| B.C. 2 | MASTADON<br>Chromex Nickel ML<br>82 E/1<br>49°00'30" 118°10'20" | Cr occurs as disseminations, streaks and lenses in Paleozoic to Late Triassic, tectonically–emplaced serpentinized dunite which is assoc with greenstone breccia, tuffs & flows. The Jurassic Nelson granites, diorite and porphyry cut the ultramafic body to the SE. An "Alpine–type" or podiform chromite deposit. | **1900–18**: intermittent surface work. Shipment of 670 tons chromite ore.<br>**1966–70**: mag and EM surveys, dd.<br>**1977–78**: trenching and dd.<br>**1980**: dd. | Ind: 391,000,000 at 0.24% Ni ***1970*** (VSE SMF 07/74, Chromex Nickel ML) | Mineable by o/p. An appreciable part of the nickel, present in the form of nickel–bearing serpentine, is not recoverable by conventional methods. |
| B.C. 3 | CITY OF PARIS (LEXINGTON)<br>Canadian Pawnee Oil Corp<br>82 E/2<br>49°00'30" 118°36'30" | Qtz porphyry intrusive cut by a Cretaceous (?) serpentine dyke–like body. Py and cp in vein systems at both contacts. Elsewhere on the property py and cp occur as disseminations and in fractures and minor qtz stockworks in the qtz porphyry between two serpentine bodies. | **1892–1900**: u/g work in shafts and adits, minor prod.<br>**1968–71**: Lexington ML; IP, mag and geochem surveys, dd.<br>**1972**: dd in 34 holes by Granby Mng CL.<br>**1974**: geoph and geochem surveys, 1 233 m dd by Aalenian Res L.<br>**1980–82**: u/g work, dd by Grenloch Energy and Teck Corp.<br>**1986-88**: geoph and geochem surveys, dd. | Drill ind prob: 113,000 at 0.064 oz/t Au, 0.92% Cu (open pit); 503,670 at 0.195 oz/t Au, 1.25% Cu (underground); ***Total***: 616,670 at 0.171 oz/t Au, 1.19% Cu ***1979*** (VSE FS 63/85, Canadian Pawnee Oil Corp) or ind: 321,000 at 0.2067 oz/t Au, 1.2067% Cu (GCNL 04/01/88) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 4 | GOLDEN CROWN (WINNIPEG)<br>Attwood Gold Corp<br>82 E/2<br>49°04'35" 118°34'25" | Py, po and cp in qtz veins in Permian or older metamorphosed lavas and cherty tuffs. | **1896–1900**: shaft, crosscuts, drifts.<br>**1968**: geoph, geochem surveys, dd.<br>**1978**: dd.<br>**1980**: dd.<br>**1983-86**: geoph, geochem surveys, dd.<br>**1987-88**: u/g work, including a new adit; dd metallurgical testing. | Dd ind: 65,962 at 0.44 oz/t Au, 0.513 oz/t Ag, 0.66% Cu<br>(VSE SMF 11/12/87, Grand Forks Ms L)<br>*or* dd ind: 77,000 at 0.44 oz/t Au<br>(GCNL 25/07/88) |  |
| B.C. 5 | GREYHOUND<br>Corona Corporation<br>82 E/2<br>49°06'03" 118°42'05" | Cp, py, po occur along fractures and interstitially between grains in a skarn zone formed at the contact of limestone and Jurassic granite and granodiorite. Rocks are intensely brecciated and altered. Min'lzn in series of E–W trending parallel lenses. | **1898–1916**: u/g work from two shafts, dd.<br>**1955–56**: geoph survey, dd.<br>**1970–71**: Greyhound ML; IP and mag surveys, dd. Prod 658 tons Cu.<br>**1973–74**: mag and geochem surveys, dd. | 200,000 at 0.6% Cu ***1973***<br>(Giant Mascot ML, 1973 AR) | Prod Sept 70 to Jan 71: 500 oz Au, 11,000 oz Ag, 656 tons Cu from c 240,000 tons ore. |
| B.C. 6 | MARSHALL<br>Canbec Res L<br>82 E/2<br>49°06'37" 118°36'25" | Ms po with py in garnet–chlorite skarn at contact of Triassic limestone and siliceous siltstone, on the crest of an isoclinal fold. Intrusive rocks are confined to tabular bodies of qtz monzonite and granodiorite. | **1938**: trenching and dd by Cominco L.<br>**1968–70**: dd, trenching, geochem survey.<br>**1973**: Highland Lode ML: mag survey, 1,000' dd in 9 holes.<br>**1974**: bulk sampling.<br>**1982**: Essex Petroleum Corp optioned.<br>**1985**: Kettle River Res and Noranda: dd. | Ind: about 50,000 tons at 0.5 oz/t Au ***c 1974***<br>(NM 25/10/79) | In No 1 zone to a depth of 50'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 7 | MOTHER LODE & SUNSET<br>Corona Corporation<br>82 E/2<br>49°06'42" 118°43'00" | Sediments, including cherts and mid–Triassic limestone are cut by granodiorite and later dykes of porphyry.<br>Sulphide mineralization and magnetite occur in a skarn zone between crystalline limestone and a NE–striking fault. The localization of the orebody may be related to drag–folding. | Prod began in 1900. By 1902 u/g workings totalled about 7,000'; shaft to 500', closed in 1918.<br>**1955**: mag and EM surveys, dd shaft pillar.<br>Mill operated Jan–Aug, 1957 and June, 1959 to April, 1962<br>**1970**: mag and IP surveys, dd.<br>**1973–74**: mag and geochem surveys, dd. | Prov & prob: c 449,000 at 0.65% Cu, 0.015 oz/t Au, 0.13 oz/t Ag (includes Greyhound) (Royex Sturgex ML, Information Circular, 27/04/84) | Total prod, 1900–62: 178,000 oz Au, 722,000 oz Ag, 40,000 tons Cu from 4,600,000 tons ore. |
| B.C. 8 | ORO DENORO<br>Polestar Expl Inc<br>82 E/2<br>49°07'35" 118°32'50" | Gold–enriched iron skarn (garnet–mag) localized in Triassic limestone and sharpstone conglomerate beds at contact with Cretaceous granodiorite of Nelson batholith. Also garnet–epidote–cp endoskarn within granodiorite. | **1900**: shaft to 225'.<br>**1906–11**: British Columbia Copper CL extensive dev; 136,000 tons shipped to smelter in 1903–17.<br>**1965–68**: mag, IP, geochem and more than 20,000' dd.<br>**1974–76**: mag, EM and IP surveys, dd.<br>**1989**: feasibility study for Cu-Au and garnet abrasive production. | Ind: 1,167,000 at 0.95% Cu, 0.02 oz/t Au, 0.3 oz/t Ag ***1968***<br>(WM, Oct 1968, p 150) | Some of the indicated tonnage may not be available for o/p mng.<br>Granby Mng CL in 1974 carried out a test mng program with a view to milling at Phoenix, 7 mi away, with unsatisfactory results. |
| B.C. 9 | ANARCHIST CHROME<br>Rough River<br>Petroleum Corp<br>82 E/3<br>49°01'20" 119°12'10" | Small irregular lenses and vein–like bodies intrude (Permian?) limestone of Anarchist group on the east limb of syncline. Small ultramafic and porphyritic intrusions cut limestone on W limb. | **1956–57**: trenching, dd.<br>**1961**: mag survey and dd. | 110,000 at unstated $Cr_2O_3$ grade ***1957***<br>(WCMN 13/09/57)<br>***or*** 110,000 at 26.7% Cr<br>(CMH 1985–86, p 295) | Estimated in one area of AA anomaly. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 10 | OLD NICK<br>Nickling Resources Inc (in 1986).<br>82 E/3<br>49°02.7' 119°06.6' | A zone of altered rocks, probably originally Anarchist Group sediments but now mainly tremolite, is cut by a large dunite dyke. Ni occurs with po as disseminations in the tremolite rock and in altered dunite adjacent to shear zones. Mineralization over area of about 4,800' by 400'. Porphyry deposit. | **1967**: dd.<br>**1968**: mag and geochem surveys, trenching.<br>**1971**: bacteriological leaching test.<br>**1972**: mag and geochem surveys.<br>**1980–82**: geoph and geochem surveys.<br>**1984-86**: geochem and geoph surveys. | More than 100,000,000 at 0.22% Ni ***c 1967***<br>(CANMET IR 71–34) |  |
| B.C. 11 | FAIRVIEW<br>Oliver Gold Corp<br>82E/4<br>49°12' 119°38'30" | Au, Ag mineralization in deformed system of sulphide– bearing qtz veins in middle greenschist–metamorphosed and complexly–deformed micaceous quartzite and chloritic qtz–fspr–mica–schists of probable volcanic origin (mid–Palaeozoic to Triassic? Kobau Gp). Setting & style of mineralization similar to many Archean lode gold deposits. Ore–bearing veins have been tectonically thickened by folding and ore minerals remobilized and concentrated in axial cleavage planes. Sulphides include py, gal, sph, cp. | **1898-1903**: u/g dev in shaft and adit.<br>**1933-39**: u/g dev; production from 1936.<br>**1947-61**: Cominco L mined flux for the smelter at Trail.<br>**1982**: dd, geoph survey.<br>**1986-87**: geochem and geoph surveys, u/g rehab, dd. | meas, ind, inf: 762,000 at 0.11 oz/t Au, 1.2 oz/t Ag (undiluted) ***1961***<br>(Oliver Gold Corp, Prospectus 13/11/86) |  |
| B.C. 12 | STEMWINDER<br>Oliver Gold Corp<br>82E/4<br>49°12' 119°37'40" | Palaeozoic metasediments host massive qtz veins up to 20' wide which follow bedding or shearing. Veins carry low Au–Ag values, usually assoc. with minor gal–sph. | **1888-1908**: u/g dev from shaft; ore milled locally .<br>**1961**: dd .<br>**1982-84**: dd.<br>**1986-88**: u/g dev, dd. | dd ind: 640 000 mt at 3.8 g/mt Au, 51.4 g/mt Ag<br>dd ind: 185 000 mt at 9.2 g/mt Au, 103.0 g/mt Ag ***1984***<br>(BC EXPL 1986, P.A65) | In Main vein.<br>In North vein. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 13 | SUSAP (KING EDWARD)<br>Aurora Gold Corp<br>82 E/4<br>49°06'23" 119°48'20" | Cp and mo with low Au and Ag values in qtz stringers and joint planes at contact of Nelson quartz–monzonite porphyry (Cretaceous ?) and Triassic or earlier volcanic and metasedimentary rocks. | **1903**: adits and shallow shaft.<br>**1918**: adit and trenching.<br>**1921**: a 4th adit driven.<br>**1962–63**: trenching, dd, geoph and geochem surveys.<br>**1967–68**: geoph and geochem surveys.<br>**1970–73**: geoph and geochem surveys, dd.<br>**1979**: trenching, dd.<br>**1989**: mapping, sampling. | Dd ind: 928,000 at 0.108% $MoS_2$, 0.155% Cu ***1979***<br>(NM 07/12/79) |  |
| B.C. 14 | TUZO CREEK<br>Canamax Res Inc<br>82 E/6<br>49°22'20" 119°07'50" | Mo with mag and rare cp in fractures in sheared and altered zone in Valhalla qtz monzonite. | **1961–62**: geoph and geochem surveys, tr.<br>**1965–66**: geochem survey, dd.<br>**1981**: 1 ddh, 765 m. | Low–grade Mo in a zone about 1 000 m by 300 m<br>(BC GF 1975, p 30)<br>***or*** Grades range from 0.06 to 0.28% Mo in several zones 3 m 16 m wide<br>(CIM Spec Vol No 15, Table 1, No 3) |  |
| B.C. 15 | BLIZZARD<br>Norcen Energy Res L<br>Campbell Res Inc<br>Imperial Metals Corp<br>82 E/10<br>49°37' 118°55' | Uranium mineralization, believed to be autunite, in palaeostream channel or basin in Valhalla intrusive. | **1976–78**: dd. | Known reserves:<br>2 208 000 mt at 0.2145% $U_3O_8$<br>(Campbell Chibougamau ML 1979 AR)<br>***or*** prov: 2,230,000 cont 10,197,000 lbs $U_3O_8$<br>(Campbell Res Inc, 1986 AR) | Mineable by o/p. |
| B.C. 16 | CUP LAKE (DONEN 281-320)<br>PNC Expl (Canada) CL<br>82E/10<br>49°35'45" 118°53'55" | Secondary uranium minerals occur in Miocene palaeochannel conglomerate and carbonaceous sediments. | **1971-73**: staking, dd.<br>**1979**: dd. | > 1 000 000 mt at c 0.04% U<br>(CIM Spec Vol. 33, p 319) | Preliminary estimate. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 17 | FUKI (DONEN)<br>PNC Expl (Canada) CL<br>82E/10<br>49°32'40" 118°52'55" | Secondary uranium minerals occur in Miocene palaeovalley conglomerate and carbonaceous sediments. | **1969-71**: rad survey, dd.<br>**1978-79**: dd. | > 500 000 mt at 0.025% U (CIM Spec Vol 33, p 319) | Preliminary estimate. |
| B.C. 18 | CARMI<br>International Vestor Res L, Dynamic Oil L<br>82 E/11<br>49°31'05" 119°10'00" | Biotite–granodiorite of Jurassic Nelson batholith intruded by a two–mica porphyry deposit of the Cretaceous Valhalla intrusive. Two mineralized breccia zones (the "E" and "Lake") are localized within the Nelson unit. Mo in angular Nelson fragments and within the qtz–rich breccia matrices. Brannerite is restricted to the qtz matrix of a portion of the "E" zone. | **1970–72**: mag, IP and geochem surveys, dd in 6 holes.<br>**1974**: geochem survey, dd.<br>**1974–76**: Granby option – IP survey, dd.<br>**1976**: Craigmont option – mag, IP and geochem surveys, dd.<br>**1978**: Union Oil option, geoph survey.<br>**1979–81**: geoph and geochem surveys, dd.<br>**1985**: dd.<br>**1989**: Placer Dome Inc option. | Dd–ind: >43,000,000 at 0.10% Mo ***1979*** (Dynamic Oil L, FS 242/84)<br>***plus*** 6,000,000 at 0.36% $MoS_2$ ***1981*** (Vestor Expl L, Report to Shareholders, Aug/85) | Combined o/p potential of "E" and "Lake" zones.<br>At depth in "Lake" zone; avg 30' width; not o/p. Drill core from a portion of "E" zone avg 1.0 lb/t $U_3O_8$. |
| B.C. 19 | HAYNES LAKE (PB 81-179)<br>PNC Expl (Canada) CL<br>82 E/14<br>49°45'30" 119°08' | Uranium occurs in Miocene palaeovalley conglomerate and carbonaceous sandstone. | **1973-76**: geol mapping, rad survey, dd. | In excess of 2 000 000 mt at slightly over 0.01% U (CIM Spec Vol 33, p 319) | |
| B.C. 20 | KETTLE (HYDRAULIC LAKE)<br>Alban Expls L<br>82 E/14<br>49°47'45" 119°11'40" | Uranium mineralization (autunite) in thin layer of unconsolidated Middle Tertiary sandstone, conglomerate and regolith which overlies Coryell intrusions and older rocks and are, in turn, overlain by plateau basalt. | **1976**: Tyee Lake Res L discovered uranium mineralization by dd. Noranda–Kerr Addison joint venture option – IP survey and dd.<br>**1978**: Placer Dev L option. | Estimated 2 100 000 mt at 0.03% U (CIM Spec Vol 33, pp 317,319) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 21 | ASPEN<br>Auckland Expls L<br>82 F/3<br>49°11'20" 117°11'15" | Replacement zones in dolomitized Palaeozoic Reeves limestone contain banded and disseminated sph with py and po. Gal is locally abundant, and is associated with argentiferous tetrahedrite. Local high Ag values appear to be confined to silicified zones. | **1912–20**: trenching and u/g work in 3 adits.<br>**1926–29**: u/g work in 5 adits and an inclined shaft, dd.<br>**1933–37**: additional u/g work and dd.<br>**1952**: dd.<br>**1959**: Cominco L option and dd.<br>**1980–81**: exp work, dd 6,820'.<br>**1983–84**: rehabilitation of B adit. | Dd prov: 54,146 at 6.85 oz/t Ag ***plus*** dd–ind: 13,428 at similar grade ***1981*** (A M de Quadros in Auckland Expl L, Prospectus, 11/06/85)<br>***plus*** dd–ind: 40,000 at 3.16% Zn ***1959*** (above Prospectus) | In Silver zone over a 11' mining width.<br>In Zinc zone. |
| B.C. 22 | JACK POT<br>New Jersey Zinc Expl C (Can) L<br>82 F/3<br>49°14'30" 117°08'45" | Disseminated to massive sulphides in 4 zones, including bands up to 10 feet thick, in Cambrian dolomite of the Liab Formation. | **1900–02**: u/g work in adits and shaft.<br>**1948–54**: geoph survey, trenching, dd and u/g work in two adits.<br>**1966–68**: dd.<br>**1975–77**: dd.<br>**1982–83**: geoph and geochem surveys, dd. | About 3,860,000 at 5% combined Zn–Pb ***c 1977*** (NM 3/03/83)<br>***or*** dd–ind: 1,039,750 at 4.68% combined Pb–Zn; dd inf and speculated: 3,228,000, no grade stated ***1983*** (VSE FS 148/84, Tri Basin Res L) | In 3 zones. A further regional potential of about 2,225,000 tons is estimated by New Jersey Zinc. |
| B.C. 23 | VICTORY<br>82 F/3<br>49°08'25" 117°10'35" | Ordovician argillite and limestone intruded by tongues of Jurassic Nelson granite. Calcareous sediments near the granite have been altered to skarn containing disseminations of scheelite and molybdenite. | **1932**: staked as a molybdenum prospect.<br>**1952–53**: Victory Tungsten L option – more than 15,000' dd.<br>**1977**: Mentor Expl option – mag and geochem surveys.<br>**1980**: dd.<br>**1983**: geochem surveys. | Ind: 82,000 at 0.54% $WO_3$ ***1953*** (Mentor Expl & Dev CL, 1977 AR) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 24 | CENTRE STAR<br>Cominco L (in 1971)<br>82 F/4<br>49°04'50" 117°48'20" | Augite porphyrite of the Rossland Fm cut by granodiorite of the Jurassic Nelson intrusives. Po, py and cp as replacements along fissures and intrusive contacts. The main mineralization occurs between diorite–porphyrite and augite–porphyrite and also between monzonite and the porphyrites. | **1906–28**: Cominco L purchased three separate adjacent properties and operated as a unit. The interconnected workings total about 60 mi, extending to a depth of about 1,650'.<br>**1967–68**: Falaise Lake ML – option – mag and EM surveys, 10,480' dd in 41 holes.<br>**1969–71**: new adit driven 4,300', u/g dd. | Ind: 307,400 at 0.204 oz/t Au, 0.61 oz/t Ag, 0.65% Cu ***1968***<br>(VSE SMF 11/70, Falaise Lake ML) | In pillars and stope remnants in the upper part of the Le Roi, Iron Mask and War Eagle workings. Total prod 1897–1942: 1,600,000 oz Au, 1,600,000 oz Ag, 27,000 tons Cu, from 3,300,000 tons ore. |
| B.C. 25 | COXEY (RED MOUNTAIN)<br>82 F/4<br>49°05'20" 117°49'30" | Pockets and disseminations of molybdenite in skarn in Mt. Roberts Fm. argillite and in adjacent brecciated granodiorite porphyry dyke. Two types of mineralization, including 1) mo, po and minor cp in mixed breccia, 2) mo, asp, py, po, cobaltite and bismuthinite. | **1897**: expl.<br>**1899**: adits, shaft.<br>**1964**: 152 ddh.<br>**1966–70**: prod 3,553,017 lbs Mo.<br>**1971–72**: prod.<br>**1981**: dd. | Dd–ind: 270,000 at 0.37% $MoS_2$ in upper "B" and "C" zones<br>((VSE FS 139/82, David Mnrls L) | David Mnrls L purchased the property, including the 600 t/d mill in 1981. |
| B.C. 26 | GIANT, NOVELTY<br>Cominco L.<br>82 F/4<br>49°05'00" 117°49'27" | Palaeozoic argillites of the Mount Roberts Fm metamorphosed to various types of hornfels and underlain by a thick sill–like mass of augite and hornblende porphyry. The hornfels contain a mass of breccia, throughout which are irregular masses of rock variously described as diorite, andesite or hornblende porphyry. Mo, po and minor cp occur in the breccia. | **1965–66**: geoph and geochem surveys and approx 50,000' dd in 119 holes.<br>**1967**: Scurry–Rainbow – 46,000' dd in 174 holes.<br>**1973**: geochem survey.<br>**1981**: dd.<br>**1988**: dd. | Ind: 1,070,280 at 0.282% $MoS_2$, 0.034 oz/t Au ***1967***<br>***or*** 778,500 at 0.34% $MoS_2$, 0.058 oz/t Au ***1971***<br>(P W Richardson 10/80 in VSE SMF 268/80, David Mnrls L).<br>***or*** dd ind: 85,000 at 0.150% Au, 0.380% $MoS_2$, 0.126% Co ***1984***<br>(VSE SMF 11/07/85, David Mnrls L) | In Novelty Main zone (undiluted). |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 27 | GOLDEN QUEEN AND ST. ELMO<br>82 F/4<br>49°05'20" 117°48'20" | Skarn deposit. Mo, py, po, cp in breccia in Palaeozoic Mount Roberts Fm hornfels. Nearby shear zone contains po, py, cp, scheelite. | **1896–1901**: 2 adits, 2,300' lateral u/g work.<br>**1964–65**: geoph, geochem, str, sampling, dd 47 holes 4,826'.<br>**1966**: dd.<br>**1973**: geochem. | 237,000 at 0.273% $MoS_2$ ***1971***<br>(P W Richardson 10/80 in VSE SMF 268/80, David Mnrls L)<br>***or*** Dd ind: 19,500 at 0.30% $MoS_2$ on the Golden Queen claim ***and*** 65,100 at 0.28% $MoS_2$ on the St. Elmo claim ***1983***<br>(VSE SMF 11/07/85, David Mnrls L) | |
| B.C. 28 | MAY & JENNIE<br>Europa Petroleum L.<br>82 F/6<br>49°26'25" 117°22'40" | The host rock comprises hornblende and chlorite schists. The mineralized zone consists of interbands of pyritic qtz and schist containing values in gold. | **1900–06**: u/g work in two adits.<br>**1973**: Highland Star ML – option.<br>**1984–85**: geochem and geoph surveys, tr. | Ind: 80,000 at 0.25 oz/t Au ***1973***<br>(NM 28/02/74) | |
| B.C. 29 | SILVER KING<br>Inter–Globe Res L<br>82 F/6<br>49°25'15" 117°18'00" | A zone of Jurassic chlorite and sericite schists occurs in plutonic rocks of the Nelson batholith. Two approximately parallel vein lodes consist of qtz, calcite and schist with disseminated tetrahedrite, cp, py and gal. | **1893–1907**: extensive dev by Hall Mng & Smg CL with intermittent prod.<br>**1912–19**: Cominco L purchased a controlling interest; u/g work and dd.<br>**1965–67**: New Cronin Babine ML option – 12,187' dd in more than 54 holes.<br>**1981**: feasibility study.<br>**1983**: trenching, dd. | Prov: 82,700 at 8.6 oz/t Ag, 0.9% Pb, 2.0% Cu ***1967***<br>(VSE SMF 07/11/75, Sproatt Silver ML) | Property held by Silver King ML, which is owned by Inter–Globe (90%) and Cominco L (10%). |
| B.C. 30 | STEWART<br>J Denny (in 1978)<br>82 F/6<br>49°17'10" 117°15'55" | Scheelite in narrow skarn zone in Jurassic sediments. | **1942**: trenching and sampling.<br>**1943**: sampling.<br>**1951–52**: adit to 460' and u/g dd.<br>**1978**: geochem survey. | 330 T/VF at 0.50% $WO_3$ ***1951***<br>(Cannon, D M 05/04/51 ***in*** Prospectus 30/04/51, Arrow Tungsten ML) | Adit and horizontal drilling at an apparent depth of 100' below outcrop failed to locate significant mineralization. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 31 | TAMARAC<br>Greenwood Expls L<br>82 F/6<br>49°18'55" 117°12'20" | Gold–bearing qtz veins in Jurassic feldspar and augite porphyry. Locally up to 3 m of altered gold–bearing wall-rock at vein sides. | **1896–1902**: u/g work in x–cut and drift; minor prod.<br>**1905**: minor prod.<br>**1932–33**: u/g work and minor prod.<br>**1936–38**: new adit driven and limited dd.<br>**1959**: bulldozer trenching; 200 tons shipped.<br>**1979–80**: geochem survey, dd. | Prov, prob, poss: 630,000 at 0.103 oz/t Au ***1980***<br>(NM 25/12/80)<br>***or*** prov: 55 890 mt at 0.147 oz/mt Au<br>(NM 21/01/82)<br>***or*** prov and prob: 132 192 mt at 0.129 oz/t Au<br>(VSE, Prospectus, 11/08/88, Wirlwind Res L) |  |
| B.C. 32 | WISCONSIN<br>Esperanza Expls L<br>82 F/7<br>49°24'40" 116°57'40" | Asp, cp, gal, sph, and antimony with qtz in lenses at sheared contact between Precambrian sedimentary rock and post-Triassic intrusives. | **1898–1900**: dev in adits and winze.<br>**1928**: electrical survey.<br>**1935**: dd.<br>**1936–37**: winze deepened and drifting on 150' level.<br>**1940**: u/g work; 5 adits to date.<br>**1980**: geochem surveys.<br>**1984–85**: geoph survey, dd by BP Selco Inc.<br>**1986-88**: geoph surveys, dd. | Geol inf: 150,000 at 0.35 oz/t Au, 5.0 oz/t Ag<br>(NM 01/11/84) | Mineralogy said to be complex. |
| B.C. 33 | WARHORSE (BOY SCOUT)<br>82 F/9<br>49°33'50" 116°11'10" | Discontinuous qtz veins and lenses carrying gal, sph, py and some asp ocur in a broad shear zone in argillaceous qtzite of Aldridge Fm. | **1890s–1909**: two adits driven.<br>**1926–30**: No 3 adit driven.<br>**1949**: dd.<br>**1950–56**: 4,084' drifts and x–cuts in No 4 adit, dd.<br>**1969**: dd. | Ind: approx 25,000 to 30,000 at 6% Pb, 8% Zn, 5.0 oz/t Ag ***c 1956***<br>(NM 30/12/65) |  |
| B.C. 34 | ALPINE<br>Cove Resources Corp<br>82 F/11<br>49°41'05" 117°15'00" | Auriferous py, gal, sph in 3.5' wide qtz vein cutting porphyritic Nelson granite. | **1896**: trenching.<br>**c 1918–20**: two adits driven; Gibson mill operated.<br>**1937–48**: lower adit driven; 50 t/d mill operated part time.<br>**1987-89**: u/g dev and dd. | Prov: 210,000 at 0.4 oz/t Au<br>(GCNL 8/02/89) | Production 1940–48: 11,000 oz Au, 7,000 oz Ag, 50 tons Pb, 19 tons Zn from 17,000 tons ore. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 35 | HOPE NO. 2<br>Chapleau Res L<br>82 F/11<br>49•43'30" 117•24'28" | Two massive sulphide showings: sph, gal, py and po in skarn in Jurassic–Triassic Slocan Gp. meta–sediments at or near contact with Cretaceous–Jurassic Nelson Batholith granodiorite; other is sediment–hosted stratiform py, po, sph and gal. | **1898–99**: open cuts and adit.<br>**1927–28**: new adit, minor production.<br>**1948-51**: minor dev.<br>**1986-87**: geochem and geoph surveys, tr. | potential of 143,000 at 7.7 oz/t Ag, 7.9% Pb, 17.4% Zn ***1949***<br>(Chapleau Res L, Prospectus 17/05/85) |  |
| B.C. 36 | MOLLY GIBSON<br>Molly Gibson Silver L<br>82 F/11<br>49•44'20" 117•08'50" | Jurassic porphyritic granite of the Nelson batholith. Two qtz veins about 50' apart are locally mineralized with sph and gal. | **1906–07**: mng and milling.<br>**1910–20**: Cominco L acquired, intermittent mng and milling; u/g work to 1920 about 9,000' drifts, crosscuts and raises in 5 adits.<br>**1930**: low–level adit driven 1850'.<br>**1966–67**: Homestake Silver L option – 1,832' drifting. | 115,000 at 16.0 oz/t Ag, 2.96% Pb, 3.17% Zn ***1965***<br>(NM 23/09/65) | The property produced 2,500 tons Pb and 1 million oz Ag from 62,000 tons ore treated intermittently between 1899 and 1950. |
| B.C. 37 | TILLICUM<br>Esperanza Expls L<br>82 F/13<br>49•59'05" 117•42'40" | Siliceous calc-silicate skarn with Au, po, py, sph and gal, in calcareous sediments and volcanics of the Upper Triassic Rossland Gp, adjacent to (?) Jurassic monzonite porphyry dykes and sills. | **1980**: discovery.<br>**1981**: geol, geochem, geoph, tr, 8 km access road, bulk sampling.<br>**1982–87**: geoph and geochem surveys, dd, three adits driven, bulk sampling.<br>**1988**: drifting and dd on East Ridge Zone. | Prov-prob: 55,000 at 1.05 oz/t Au in the Heino–Money pit zone; dd-ind: 578,500 at 0.28 oz/t Au in the East Ridge zone; dd-inf: 810,000 at 0.21 oz/t Au (0.12 oz/t Au cut-off) in the East Ridge zone<br>***Total***: 1,443,500 at 0.27 oz/t Au<br>(GCNL, 30/01/89) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 38 | HALL, ALTOONA<br>Royal Oak Res L<br>82 F/14<br>49°59'30" 117°14'40" | Sph, gal, Au, Ag, Cd with qtz and sheared Triassic sedimentary rock in shear zones and as local replacements in limestones. | **1898–1900**: 4 adits.<br>**1930**: tr and crosscut.<br>**1950–51**: ore shipped<br>**1965-66**: ore shipped from No. 1 adit.<br>**1979–84**: geochem survey, dd, u/g dev in old and new adits. | Estimated to contain 246,000 ozs Ag, 800 tons Pb, 213 tons Zn (Royal Oak Resources L, 30/06/86 AR) | Mineral inventory at closure in 1984. |
| B.C. 39 | L.H.<br>Andaurex Res Inc<br>82 F/14<br>49°53'32" 117°20'20" | Roof pendant of altered Triassic argillaceous and qtzitic rocks in Nelson granite. Au either free or combined with py, asp and cp as replacements and disseminations in qtz veins and wallrock in 20' to 40' wide fracture zone. Also Au-Ag values in a calc-silicate skarn. | **1895–1904**: u/g work in adit.<br>**1911–13**: u/g work by British Columbia Copper CL in 3 adits.<br>**1938**: A W Crossley shipped 316 tons.<br>**1945**: dd.<br>**1980–81**: geoph and geochem surveys.<br>**1985-87**: geoph and geochem surveys, dd by Noranda.<br>**1988**: Goldpac Investments L, dd. | Approx 60,000 at 0.25 oz/t Au ***1946***<br>(F C Buckland 23/04/46 ***in*** Que G Mng Corp AR 31/01/46)<br>***or*** ind: 330,000 at 0.5 oz/t Au<br>(GCNL, 29/06/88) | Mineralized zones are irregular and ill–defined. |
| B.C. 40 | WILLA<br>Northair Mines L<br>82 F/14<br>49°52'50" 117°22'05" | Breccia pipe Au, Cu, Ag deposit hosted by inlier of Upper Triassic Rossland Gp augite andesite within Nelson Batholith. Volcanics intruded successively by qtz latite porphyry ring dyke, feldspar porphyry stock, Early Jurassic Au, Cu, Ag mineralization and an intrusive breccia pipe. | **1899–1904**: u/g work in 6 adits; ore shipped.<br>**1931–36**: dev ore shipped.<br>**1964–65**: dd.<br>**1969–70**: geochem survey, dd.<br>**1980–84**: dd.<br>**1985–88**: u/g work and dd. | Prob and poss: 242,000 at grade similar to West zone;<br>Mineable: 456,727 at 0.176 oz/t Au, 0.92% Cu (GCNL 24/10/88) | In Main and East zones.<br>In West zone.<br>The 1988 work failed to expand the tonnage. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 41 | BLUEBELL<br>Cominco L<br>82 F/15<br>49°45'50" 116°51'30" | Both stratiform and discordant replacement deposits of gal, sph and cp in long fracture zones in Palaeozoic limestone. | **1854–96**: dev and mining.<br>**1911-30**: intermittent dev and mining, milling.<br>**1948–71**: mining, milling. | Aprox 500,000 mill tailings containing zinc, lead, silver<br>(Mining Magazine, Dec 1983, p 446) | Tailings were dumped on the shore of Kootenay Lake and most of the material eventually slid to the bottom of the lake 128 m deep and 290 m offshore. |
| B.C. 42 | COMMERCE<br>Kintla Expls L<br>82 G/1<br>49°10'00" 114°23'30" | Precambrian sedimentary and volcanic rocks locally intruded by diorite sills and dykes. Bornite, chalcocite and cp occur locally as replacements in thin sandstone beds, shale and dolomite. | **1967**: reconnaissance geochem stream sediment survey by Kennco Expl.<br>**1970**: 250' dd in 5 holes by Falconbridge L.<br>**1972–73**: Kintla Expls L: geochem rock survey.<br>**1976–79**: geoph survey, geol mapping, rad survey.<br>**1986–87**: sampling. | Ind: 125,000 at 1.25% Cu, 0.25–0.50 oz/t Ag<br>***1973***<br>(NM 21/02/74) |  |
| B.C. 43 | BAR<br>Chapleau Res L<br>82 G/5<br>49°28' 115°57' | Hydrothermal cp, sph, gal with Au values in qtz veins, breccias and alteration associated with syenite dykes at the junction of the Cranbrook and Palmer Bar faults. | **1988**: Dd by Gunsteel Res Inc. | "the deposit could be at least 4,000,000 tons"<br>(NM 01/05/89) | Up to 0.5% Cu over 24.5 m in 1988 dd. Showings anomalous in Au; best grab sample to date assayed 10.6 g/t Au (BC Expl Review, 1988, p 24). |
| B.C. 44 | BIG BONANZA<br>82 G/11<br>49°30'12" 115°23'00" | Cp as fracture fillings and massive replacements in shear zones in argillites and quartzite rocks of Precambrian Aldridge Fm. | **1896**: adit.<br>**1968–74**: mag, IP, EM and geochem surveys, dd. Two o/p developed. Milling at 750 t/d, 1971–1974, of 520,000 t, recovering 8,000 tons Cu, 204,000 oz Ag and 4,000 oz Au.<br>**1982**: airborne geoph surveys, 124 m dd. | 90 720 mt at 1.3% Cu, 0.31 g/mt Au, 21.77 g/mt Ag<br>(BC Reserves Map, 1984) | Planned 700' expl decline to determine feasibility of mng the u/g reserves was abandoned in 1974 after several abortive attempts to collar the portal in ground that could not be economically stabilized. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 45 | KOOTENAY KING<br>Cominco L<br>82 G/12<br>49°43′40″ 115°35′10″ | Stratiform deposit: py, gal, and sph as fine laminae in dolomitic to argillaceous siltstone within a grey quartzite unit of the Proterozoic Middle Aldridge Fm. | **1890s–1925**: about 1,000′ u/g work in 3 adits.<br>**1928–29**: drifting and 3,400′ dd.<br>**1952–53**: Transcontinental Res. L: u/g dev and dd; small mill operated part time.<br>**1970–74**: Cominco L: EM and geochem surveys.<br>**1980**: geol mapping. | Ind: 9,000 at 15% Pb–Zn at closure in ***1953***<br>(BC RMM 1953, p 150) |  |
| B.C. 46 | PAYNE<br>Silvex Res Corp<br>(in 1980)<br>82 K/3<br>50°00′25″ 117°13′49″ | Veins and shear zones in metasedimentary rock contain argentiferous gal, py, sph. Main ore shoot averaged 1,000′ in length. | **1891**: discovery, u/g ops.<br>**1897–99**: mining ops.<br>**1902–04**: mining ops.<br>**1911–16**: u/g expl, dd.<br>**1921**: u/g expl.<br>**1935–39**: u/g ops.<br>**1941**: tr.<br>**1948**: u/g work.<br>**1951**: u/g expl.<br>**1972**: expl. | Poss: 30,000 at 7.53% Zn, 1.2 oz/t Ag ***1972***<br>(Silvex Res Corp, SMF 254/80, p 24) |  |
| B.C. 47 | MILLIE MACK<br>Greenstone Res L<br>82 K/4<br>50°02′30″ 117°43′40″ | Qtz veining and asp, gal, sph with Au-Ag values in a sheared contact between Triassic-Jurassic sediments and volcanics. | **1897-1923**: surface and u/g work in several adits.<br>**1967–73**: u/g work, tr, geochem and geoph surveys.<br>**1980:925** m rotary drilling in 36 holes.<br>**1988**: o/p feasibility study. | Potential for 20,000,000 at in excess of 0.05 oz/t Au, 2.5 oz/tAg<br>(Greenstone Res L., ***1988*** AR)<br>***or*** 1,700,000 at 0.14 oz/t Au, 6.5 oz/t Ag<br>(GCNL 01/05/89) | Open pit material in main zone. |
| B.C. 48 | DUNCAN<br>Cominco L<br>82 K/7<br>50°21′50″ 116°56′50″ | Eight complexly folded and faulted lenticular sulphide zones are located within the hinge of a fold in dolomite of the Lower Cambrian Badshot Fm. Py, sph, gal and minor po disseminated in dolomite and siliceous dolomite. | **1957–61**: Cominco L – u/g work in adit and shaft, dd.<br>**1979**: dd.<br>**1981**: seismic survey over 25 km. | c 9 000 000 mt 2.7% Pb, 2.9% Zn ***1962***<br>(CIM Bull, Apr 1982, p 125)<br>***or*** 2 760 000 mt at 3.3% Pb, 3.1% Zn<br>(BC Reserves Map, 1984) | The crosscut adit was sealed prior to the completion of the Duncan dam, which raised the lake level about 90′, flooding a portion of the property. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 49 | MINERAL KING<br>Mountain Mnrls CL<br>82 K/8<br>50°20'45" 116°25'35" | Mineralization occurs in the Proterozoic Mt Nelson dolomite and consists of tabular and lenticular replacements of the dolomite by sph, gal, py, ba and qtz. Orebodies subsequently deformed with host rocks. | **1898**: u/g dev.<br>**1950–57**: dd, new low level adit driven, mill operated. Orebody worked from 4 adit levels and 2 shafts.<br>**1968**: purchased by Mountain Mnrls L as a source of barite.<br>**1974**: Purcell Dev CL mined from a shaft pillar late that year.<br>**1980–82**: barite recovered from tailings. | 80,000 at 1.0 oz/t Ag 2.5% Pb, 4.5% Zn *c* ***1967***<br>(BC RD, 1977) | Less about 5,000 tons mined in late 1974. More than 2,300,000 tons treated at intervals between 1928 and 1974 with recovery of Zn, Pb, Cu, Ag, Cd, and barite. |
| B.C. 50 | PARADISE<br>82 K/8<br>50°28'20" 116°18'00" | Pb carbonate, gal, some sph and py in isolated pockets and lenses in bedded veins, faults and fault breccias which occupy a comparatively narrow zone in folded and shattered magnesian limestone of Mt Nelson Fm near overlying slate contact. | **1899–1906**: about 5,000' of workings on 3 adit levels.<br>**1926–28**: dev on lower levels, milling.<br>**1943–52**: dd, dev of lower levels by winzes, intermittent milling.<br>**1974**: Purcell Dev CL – attempt to treat mill tailings; geochem survey. | 45,275 at 1.95 oz/t Ag, 4.81% Pb, 9.48% Zn *c* ***1952***<br>(NM 25/04/74) | Produced 8,000 tons Pb, 4,000 tons Zn, 740,000 oz Ag from 71,000 tons ore treated at intervals between 1901 and 1952. |
| B.C. 51 | SILVER BASIN<br>82 K/10<br>50°41'20" 116°44'40" | Sph and gal as replacements in Proterozoic limestone. Py and cp as disseminations and in qtz veins. | **1898**: trenching, adits.<br>**1930s**: adit driven.<br>**1969–73**: EM survey, trenching, dd. | 13 426 mt at 2.25 oz/t Ag, 4.73% Pb, 3.34% Zn, 0.16% Cu *c* ***1973***<br>(BC RD, 1977) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 52 | ABBOTT<br>Mikado Res L<br>Golden Arch Res L<br>82 K/11<br>50°37'50" 117°09'30" | Gal, sph, py as both vein–type and replacement deposits in slate, phyllite and ls of Lardeau Group. | **1894–96**: u/g work in adits.<br>**1926–27**: lower adit extended.<br>**1985**: sampling.<br>**1986–88**: new adit and dd. | Meas: 32,602 at 0.036 oz/t Au, 6.31 oz/t Ag, 8.41 % Pb, 16.51 % Zn; | In Zone 1. |
|  |  |  |  | Meas: 10,422 at 0.032 oz/t Au, 14,71 oz/t Ag, 16.06 % Pb, 14.91 % Zn; | In Zone 2. |
|  |  |  |  | Ind: 110,921 at 0.026 oz/t Au, 5.69 oz/t Ag, 5.61 % Pb, 2.88 % Zn; | In Greenlaw vein. |
|  |  |  |  | Ind: 76,885 at 0.005 oz/t Au, 1.2 oz/t Ag, 1.09 % Pb, 9.49 % Zn<br>(Golden Arch Res, Fs 99/89) | In Jewel claims. |
| B.C. 53 | BANNOCKBURN<br>Mikado Res L<br>Golden Arch Res L<br>82 K/11<br>50°38'30" 117°09'35" | Gal and sph occur as lenses in a vein within ls and dissem in quartzite strata, all in the Eocambrian Hamill group. | **1898**: adit and shaft.<br>**1904–05**: u/g work.<br>**1917–19**: u/g work in several adits.<br>**1960**: dd.<br>**1977**: dd<br>**1985**: Turner Energy optioned.<br>**1988**: road access and sampling. | Ind: 9,894 at .267 oz/t Au, 8.22 oz/t Ag, 14,25 % Pb, 7.01 % Zn (Golden Arch Res, FS 99/89<br>*or* 2 700 000 mt at 4.0% combined Pb–Zn<br>(BC Reserves Map, 1984) | On the Superior Claim. |
| B.C. 54 | RED ELEPHANT<br>Roper Resources L<br>Mikado Resources L<br>82 K/11<br>50°39'45" 117°09'40" | Replacements of qtz with py, cp; Au-Ag values occur at a Hadrynian and/or Cambrian schist-phyllite contact. | **1907–25**: u/g work in several short adits.<br>**1926–28**: u/g work in shaft and adit.<br>**1988-89**: sampling, dd. | Ind: 29,177 at 1.19 oz/t Au, 1.06 oz/t Ag, 0.93% Cu<br>(GCNL, 14/12/83) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 55 | TRUE FISSURE<br>Sibola Mines L<br>82 K/11, 12<br>50°42'25" 117°29'50" | Sulphide shoots in veins that occur in fault zones within schists and phyllites. Vein fillings consist of qtz, calcite, ankerite and numerous partly replaced fragments of wallrock. Sulphides include py, sph, gal and tetrahedrite. | **1890–1900**: small scale expl and dev.<br>**1907–30**: intermittent operations, 100–ton mill erected.<br>**1952**: dd. Workings to date include 4 adit levels, 2 raises.<br>**1966–68**: IP survey, dd.<br>**1971**: 125 t/d mill erected, minor operations.<br>**1972**: IP and EM surveys, dd, o/p preparations, mill destroyed by snowfall during winter 1971–72. | Prov: 37,000 at 9 oz/t Ag, 6.3% Pb, 7.4% Zn; prob: 57,000 at 9.5 oz/t Ag, 6% Pb, 7.6% Zn<br>***c 1972***<br>(NM 21/06/73) |  |
| B.C. 56 | WAGNER<br>Mikado Res L<br>Golden Arch Res L<br>82 K/11<br>50°40'00" 117°12'25" | Gal, sph, argentiferous tetrahedrite in qtz veins in Lardeau group phyllite. | **1895**: adit and winze.<br>**1949**: tr and dd.<br>**1952**: new adit driven.<br>**1981**: u/g work in 3rd adit, dd.<br>**1985**: tr, u/g work, bulk sampling.<br>**1986-88**: dd, bulk sampling | Meas: 110,024 at 0.01 oz/t Au, 12.15 oz/t Ag, 8.75 % Pb, 3.70 % Zn; ind: 28,539 at 0.003 oz/t Au, 6.85 oz/t Ag, 4.58 % Pb, 4.78 % Zn ***and*** 25,672 at 0.004 oz/t Au, 8.83 oz/t Ag, 8.71 % Pb, 2.24 % Zn<br>(Golden Arch Res, FS 99/89) |  |
| B.C. 57 | TROUT LAKE<br>Newmont Expl of Can L<br>Esso Mnrls Can<br>82 K/12<br>50°38'15" 117°36'10" | Mo, py and po in qtz vein stockwork in Cretaceous granodiorite stock and adjacent siliceous schists of the Lower Paleozoic Lardeau Group. Weak tungsten mineralization in peripheral skarns. | **1969–70**: trenching, dd.<br>**1975–76**: mag and geochem surveys, dd.<br>**1977–79**: dd.<br>**1980–81**: u/g expl. | Dd–ind: c 50 000 000 mt at 0.23% $MoS_2$<br>(CIM Bull, Jan 1983, p 115) |  |
| B.C. 58 | BIG SHOWING<br>New Campbell Island MSL<br>82 K/13<br>50°52'20" 117°34'30" | Py, gal, sph, cp and Ag values as dissem in altered Precambrian ls. | **Pre–1914**: adit<br>**1926**: Cominco L held option.<br>**1984-86**: geol mapping, geochem survey, property evaluations. | Prob: 239,885 at 22 oz/t Ag;<br>Poss: 439,693 at 14 oz/t Ag<br>(New Campbell Island Ms L, 1987 AR). | Assoc values in Au, Pb, Zn. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 59 | GOLDFINCH<br>Granges Expl L<br>82 K/13<br>50°49'20" 117°39'30" | Au-bearing qtz-py veins in Paleozoic phyllites, appear to be cut off by post-mineral faults at a depth of less than 100 m. | **1903–04**: milled ore from glory hole; adits driven.<br>**1980**: geochem survey.<br>**1984-87**: geoph and geochem surveys, dd.<br>**1988**: dd, decline driven and u/g dev, bulk sampling. | Prov and prob: 200,000 at 0.30 oz/t Au (Granges Expl L, Review of Major Projects Jan 87) ***or*** 150 000 mt at 0.24 oz/t Au (GCNL, 23/11/87). |  |
| B.C. 60 | SPIDER<br>K-2 Resources Inc<br>82 K/13<br>50°46'33" 117°36'30" | Five en échelon veins occupy fractures in Lower Paleozoic schist of the Lardeau Group. Vein filling is qtz with some calcite and siderite. Py, sph, Ag–bearing gal, and cp line fault remnants or form large ragged lenses or pockets in the gangue. | **1910–12**: u/g dev.<br>**1914–29**: intermittent dev; about 2,000' drifts and crosscuts in 5 adits.<br>**1949–58**: dd located 2 new veins. U/g dev in several new adits. Milling May 1952 – May 1958.<br>**1981–82**: trenching, dd.<br>**1985**: mill tailings analysis. | Prob: 58,800 at 0.08 oz/t Au, 2.70 oz/t Ag, 2.00% Pb, 4.25% Zn ***1964*** (Sunshine Lardeau ML, 1964 AR) ***or*** prov: 28,000 at 0.13 oz/t Au, 7.43 oz/t Ag 6.19% Pb, 6.34% Zn (GCNL, 26/04/88) | Produced Zn, Pb, Au, Ag, Cu, Cd, Sb from 100,000 tons treated at intervals between 1911 and 1958.<br>To 200' below 10 level on No. 4 vein. |
| B.C. 61 | TEDDY GLACIER<br>K-2 Resources Inc<br>82 K/13<br>50°52'10" 117°44'50" | Fracture zone in Paleozoic calcareous rocks of Lardeau series. Two main fractures contain gal, py, sph and some cp in a gangue of qtz and wallrock inclusions over widths of from a few inches to 4'. | **1934–35**: about 1,600' u/g work in 2 adits.<br>**1963–64**: 2,676' dd.<br>**1980**: dd.<br>**1987**: airborne geoph survey. | Prob and inf: 48,740 at 0.13 oz/t Au, 4.7 oz/t Ag, 7.9% Pb, 6.8% Zn ***1964*** (Sunshine Lardeau ML, 1964 AR) |  |
| B.C. 62 | WIGWAM<br>82 K/13<br>50°52'25" 117°58'00" | Gal, sph and py as stratabound lenses, disseminations and massive layers a few feet thick in Lower Cambrian limestone of Badshot Fm containing siliceous zones and layers of cherty rock. | **1924–31**: Wigwam Mng CL – 1,963' u/g dev in 13 adits, 5,877' dd in 28 holes.<br>**1968–69**: dd, geochem surveys.<br>**1977**: geoph survey.<br>**1981**: dd. | Ind: 697,558 at 2.14% Pb, 3.54% Zn ***plus*** inf: 8,481,212 at approx same grade ***c 1969*** (Parmac ML, Prospectus 06/72) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 63 | RUTH, VERMONT<br>Invermay Res Inc (in 1984)<br>82 K/15<br>50°56′50″ 116°58′50″ | Qtz veins in Proterozoic limestone and slate of the Horsethief Creek Gp. are mineralized with gal, sph, py, asp, cp, boulangerite, argentiferous tetrahedrite, and locally scheelite. Replacement mineralization occurs in limestone adjacent to the Nelson vein. | **1889–95**: intermittent work in adit, small ore shipments.<br>**1926–30**: number of short adits driven.<br>**1956–57**: dd and geochem survey.<br>**1965–67**: u/g dev, dd.<br>**1969–76**: 500 t/d mill installed, intermittent prod.<br>**1981**: minor prod. | Prov, prob, poss: 302,000 at 6.8 oz/t Ag, 4.8% Pb, 5.4% Zn ***1982***<br>(NM 20/05/82) | Potentially profitable if silver is over $US8/oz. |
| B.C. 64 | VOWELL & MALLOY CREEK PLACERS<br>Coronation Res (Canada) Inc<br>(in 1983)<br>82 K/15<br>50°49′40″ 116°47′50″ | Uranium oxide and pyrochlore in post glacial placer sand and gravel in Upper Bugaboo and Vowell creeks. Source rock porphyritic qtz monzonite of Bugaboo batholith. | **1954**: churn dd.<br>**1986–69**: scintillometer survey, trenching, churn dd in 77 holes.<br>**1978**: churn dd in 60 holes. | ***(i) Vowell Cr***:<br>12,750,000 yds$^3$ at (lb/yd$^3$) 0.038 $U_3O_8$, 0.25 $Cb_2O_5$, 0.056 $ThO_2$, 10 magnetite, 3 ilmenite.<br>***(ii) Malloy Ck***:<br>12,200,000 yds$^3$ at (lb/yd$^3$) 0.039 $U_3O_8$, 0.165 $Cb_2O_5$, 0.116 $ThO_2$, 13.5 magnetite, 1 ilmenite<br>***1969***<br>(J M Black, 1969 as ***quoted by*** C R Saunders 08/03/74 ***in*** VSE SMF 13/04/74, Tapin Copper ML)<br>***or*** 20,000,000 yds$^3$ at 0.036 lb/yd$^3$ $U_3O_8$, 0.331 lb/yd$^3$ $Cb_2O_5$<br>(NM 25/10/79) | Data suspect because of too few assays, imprecise method of analysis and other factors. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 65 | CHAPUT<br>Quinto Mining Corp<br>82L/7<br>50°16' 118°56'30" | A carbonaceous shear zone in Triassic argillite at the contact with felsic volcanics. The shear zone carries py and erratic Au values. | **1968-69**: u/g work in 3 adits on a Ag-Pb-Zn vein. Small mill operated intermittently.<br>**1971-77**: geoph and geochem surveys. Mill installed in 1972 operated briefly in 1976; dd.<br>**1984-87**: geoph and geochem surveys, dd.<br>**1988**: u/g work and bulk sampling. | 255 480 mt at 4.25 g/t Au (2.4 g/t cut off).<br>***or*** 290 270 mt at 3.98 g/t Au (1.71 g/t cut off).<br>(BC, Expl, 1987, p B25) | In hangingwall and footwall zones of the plateau gold zone. |
| B.C. 66 | BIG LEDGE<br>Cominco L<br>82 L/8<br>50°28'20" 118°05'05" | Sph, py, po, gal and marcasite as replacements and in fractures and breccia zones in a folded assemblage of Proterozoic marble and diopsidic qtzite of the Upper Proterozoic Monashee Complex. | **1927**: u/g work in 4 adits and dd prior to 1927.<br>**1947–53**: 6 100 m dd.<br>**1964–66**: mag and geochem surveys, 13,217' dd in 29 holes. | 6 500 000 mt at 4% Zn<br>(CIM Bull Apr 1982, p 119) | Grade less than 6% combined Zn–Pb. |
| B.C. 67 | FX (KINGFISHER)<br>Colby Res Corp<br>82 L/10<br>50°43'50" 118°43'50" | Stratabound Zn in marble, qtzite and calc–silicate gneiss of Shuswap metamorphic complex. Structure dominated by 4 faults. Sph, gal, po and py as disseminations producing a crude banding. | **1963–65**: mag survey, dd.<br>**1968–69**: mag and geochem surveys, 600' dd.<br>**1973–74**: geoph and geochem surveys, 5,604' dd in 25 holes.<br>**1975**: 145 m dd in 6 holes.<br>**1976–77**: geochem survey, dd.<br>**1980**: assessment work. | Ind: approx 1,800,000 at 0.58% Pb, 2.60% Zn ***1974***<br>(E O Chisholm 15/10/74 ***in*** VSE SMF 25/10/74, Colby ML) | |
| B.C. 68 | KING FISSURE<br>First Standard Mining L<br>82 M/1<br>51°07'40" 118°24'40" | Stratabound gal, sph, po, py and locally barite in a layer up to 10' thick in Proterozoic calc–silicate gneiss of the Shuswap metamorphic complex. | **1890s**: 3 short adits.<br>**1956–58**: trenching, sampling.<br>**1963**: 4,929' dd in 5 holes.<br>**1965–66**: 7,979' dd in one fan of 4 holes.<br>**1986**: sampling to check gold content. | South limb (No 1 lode): 2,872,700 at 1.1 oz/t Ag, 5.1% Pb, 5.6% Zn, with 10% dilution ***1961***<br>(C Riley, CIM Trans, p 272, 1961) | Deep dd since this calculation was made indicates a much greater potential.<br>(Fyles, 1970, BC Bull 57, p 48). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 69 | BC & ZINC CLAIMS<br>Killick Gold CL<br>82 M/4<br>51°00'30" 119°30'40" | Dis & ms sph, gal, cp, po and mag occurs in siliceous phyllites and greenstones of the Devono-Misciss. Eagle Bay Fm. | **1964–67**: geoph and geochem surveys, stripping, dd.<br>**1967–68**: geoph and geochem surveys, dd.<br>**1984–85**: geoph and geochem surveys, dd.<br>**1986**: bulk sampling for mill test. | Dd–ind: 171,500 at 2.43% Zn, 0.53% Pb, 1.45 oz/t Ag ***1983***<br>(VSE SMF 28/01/85, Killick Gold CL) |  |
| B.C. 70 | HOMESTAKE<br>Kamad Silver CL<br>82 M/4<br>51°06'27" 119°49'45" | Tetrahedrite, gal, sph, py, cp, argentite, and some native silver occur in tabular horizons comprised of massive to banded barite and quartz–sericite schist cut by veins and lenses of quartz. The deposit is hosted in talcose qtz sericite schist and phyllite of Shuswap metamorphic complex. | **1894–1952**: intermittent expl, dev, small scale prod, 3 adits, 1,500' of drifts.<br>**1968**: 6,200' dd, geoph, geochem.<br>**1970**: geochem.<br>**1971–72**: 3,300' u/g work, 4,144' dd.<br>**1973–74**: new main haulage adit driven about 1,900' with a raise to ore zone; 2,253' dd in 12 holes.<br>**1980**: bulk sampling.<br>**1981**: dd.<br>**1983**: 2,746 tons milled.<br>**1986–88**: Esso Res, option, geochem, geoph surveys, dd, mainly on adjacent ground. | Prov: 1,114,340 at 7.0 oz/t Ag, 0.55% Cu, 2.5% Pb, 4.0% Zn, 28% Ba ***plus*** approx 500,000 ind at same grade ***1971***<br>(FP 13/01/73)<br>***or*** prob: 275,500 at 36,7% Ba, 6.61oz/t Ag, 0.017 oz/t Au, 2.19% Zn, 1.24% Pb, 0.28% Cu ***1982***<br>(VSE SMF 06/06/86, Kamad Silver CL) | Caving occurs in unsupported ground.<br>Test milling in 1981 for flow sheet design. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 71 | MOSQUITO KING<br>Killick Gold CL<br>82 M/4<br>51°02'50" 119°30'40" | Layers, lenses and pods of semi–massive to massive sulphides, generally well–banded and conformable to schistosity and/or bedding in Lower Cambrian siliceous phyllites. Calcareous phyllite, calc–silicate rock, limestone and quartzite, graphitic phyllite underlie deposit. Sulfides are py, gal, sph, cp and po occurring in zones over an area of 100 x 500 m. Widths of 1 m to 6 m. | **1928**: trenching.<br>**1949**: Cominco option – trenching, 2,861' dd in 20 holes.<br>**1966–67**: mag, IP, gravity, EM and geochem surveys, 3,200' dd.<br>**1977–78**: Craigmont option, geoph and geochem surveys, dd.<br>**1979**: dd.<br>**1981–82**: geoph, dd, test milling with portable mill.<br>**1985**: geoph and geochem surveys, tr.<br>**1987**: bulk sampling for mill test. | Dd–ind: 37,200 at 2.09% Zn, 0.83% Pb, 0.39 oz/t Ag ***and*** 5,200 at 2.60% Zn, 1.38% Pb, 0.58 oz/t Au (VSE SMF 28/01/85, Killick Gold CL) |  |
| B.C. 72 | REA GOLD (DISCOVERY ZONE)<br>Rea Gold Corp<br>82 M/4<br>51°09' 119°49' | Cp, gal, sph with Au–Ag values in three stratabound massive sulphide lenses at contacts between altered mafic pyroclastics and debris flows in the Devono-Mississ. Eagle Bay Fm. | **1983–84**: geoph and geochem surveys, tr, dd.<br>**1985–84**: dd, u/g dev, bulk sampling. | Dd–ind: 267,720 at 0.190 oz/t Au, 2.14 oz/t Ag, 2.247% Zn, 2.14% Pb, 0.57% Cu (GCNL 09/07/86) | Unacceptable recoveries by conventional milling. |
| B.C. 73 | EBL<br>Agarwal Res L (in 1985)<br>82 M/5<br>51°19'45" 119°47'00" | Cp in felsic schists and garnet gneiss at contact of Cretaceous Baldy batholith. | **1969–74**: geoph and geochem surveys, dd.<br>**1976**: geochem survey.<br>**1981–83**: geol mapping, geoph and geochem surveys.<br>**1985**: geochem survey. | Dd–ind: a substantial tonnage of low–grade Cu mineralization ***1970*** (Royal Cdn Ventures L, 1970 AR) | Values range from 0.20 to 0.44% Cu with minor Mo, Au and Ag. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 74 | COTTON BELT<br>82 M/7<br>51•26'30" 118•49'20" | Sph, map, gal, po occur in py–amph–qtz–garnet skarn or a layers within siliceous calcareous gneiss or as disseminated grains in siliceous granular marble of Aphebian age Sushwap Metamorphic Complex. The conformable oxide–sulphide layer has been traced intermittently over a strike length of 5 km, varying in thickness from a few cm to 2m. | **1905–22**: trenching and u/g work in several adits.<br>**1925–28**: Cotton Belt ML – about 2,000' of drifts, crosscuts and raises in 4 adits; 3,333' dd in 16 holes.<br>**1966–71**: mag, IP and EM surveys.<br>**1978**: Metallgesellschaft Can L (option), dd, geoph surveys. | Ind: 800,000 ***1952***<br>(EMJ Vol 153, July 1952, p 156)<br>***or*** Less than 1 000 000 mt at 6% Pb, 2% Zn, 50 g/mt Ag (CIM Bull, April 1982, p 119). | Preliminary assays indicate a grade of 2.0 oz/t Ag, 6% Pb, 5% Zn. |
| B.C. 75 | J & L<br>Pan American Mnrls Corp<br>Equinor Res L<br>82 M/8<br>51•17'05" 118•07'56" | Deformed band of massive sulphides (probable sedimentary exhalative origin) in Hadrynian and Paleozoic qtzte, qtz–rich schist, chlorite–sericite schist and carbonaceous limestone. Minerals include gal, sph, asp, Pb–Sb sulphosalts, py. | **1890s–1922**: adit to 217', 135' inclined shaft, 170' drift and crosscut, 125' winze.<br>**1946**: adit extended.<br>**1965–66**: adit driven 892', 462' dd.<br>**1982–84**: airborne geoph survey, 3,362' of u/g dev, dd.<br>**1985–88**: extensive metallurgical testwork, dd, u/g dev, bulk sampling.<br>**1989**: dd, Placer Dome funding for metallurgical testwork. | Prob, poss: 3,371,000 at 0.17 oz/t Au, 1.73 oz/t Ag, 2.15% Pb, 4.04% Zn ***1984***<br>(GCNL 30/07/85)<br>***or*** poss: 11 438 000 mt at 0.20 oz/t Au, 2.01 oz/t Ag, 2,56% Pb, 4.48% Zn Noranda, ***1987***<br>(Equinox Res L, News Release, 25/10/88) | The deposit contains an average of 5% arsenic. Metallugical tests indicate economic recoveries can be achieved using conventional methods. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 76 | BLACK DIAMOND (REXSPAR)<br>Gold Ventures L<br>82 M/12<br>51°33'35" 119°54'40" | U–Th mineralization is 15m–120m thick, massive to brecciated to schistose trachyte unit of a felsic to intermediate volcanic pile. Best grade material found in upper part of trachyte unit as discontinuous, conformable tabular masses or lenses featuring fluorphlogopite, py, fl, calcite. Ce and La occur in bastnaesite and monazite. Suggested syngenetic (with volcanic host rocks) origin. | **1950**: presence of uranium confirmed.<br>**1953–57**: adits driven on A and BD zones, dd on A, B, BD and F zones.<br>**1969–70**: geoph surveys.<br>**1973**: dd.<br>**1975–76**: feasibility study, dd. | 1 114 158 mt at 773 g/mt $U_3O_8$ ***1978***<br>(CIM Bull, Dec 1978, p 82) | Amenable to open–pit mining. |
| B.C. 77 | HARPER CREEK<br>Aurun Mines L<br>82 M/12<br>51°31' 119°49' | Tabular–shaped zones with py, po, cp occur as fracture fillings, dissem, and massive stratiform zones in Eagle Bay Fm volcanics. | **1967–74**: geoph and geochem surveys, tr, and 72,000' dd.<br>**1982–83**: geoph and geochem surveys.<br>**1986**: geoph survey, tr, assessment of Au, Ag, W potential.<br>**1988**: prefeasibility study. | Inf: 90 000 000 mt at 0.4% Cu<br>(BC GF 1985, p 93)<br>***or*** Ind: 53 000 000 mt at 0.37% Cu, 0.016% Molybdenum. (VSE AL 14/87 Aurun Ms L) | Open pittable.<br>Bench scale tests ind 2.8 g/mt Au, 88.4 g/mt Ag.<br>Significant titanium values. |
| B.C. 78 | SPAR (REXSPAR)<br>Gold Ventures L<br>82 M/12<br>51°33'50" 119°54'20" | Concordant, tabular body of fluorite mineralization in lithic tuff and tuff breccia of trachyte unit. Massive to brecciated to schistose trachyte is member of a volcanic pile sequence including alkali feldspar porphyry and porphyry breccia. Fl occurs as massive lenses, up to 1m wide, concordant streaks, disseminations and is associated with celestite, REE and radioactive minerals. | **1918**: staked.<br>**1929–30**: short adit driven.<br>**1942–43**: 4,985' dd in 36 holes, bulk sampling.<br>**1957**: 572' dd in 4 holes.<br>**1960–63**: trenching, dd.<br>**1970**: geochem soil survey, 3,908' dd in 26 holes.<br>**1972**: geochem survey and dd. | Meas and ind: 1,500,000 at 29% $CaF_2$ ***and*** inf: 500,000 same grade<br>(Cons Rexspar Mnrls & Chemicals L, 1968 AR)<br>***or*** 1,308,000 at 23.46% $CaF_2$ ***1971***<br>(CIM Spec Vol 33, p 306) | 1,300,000 recoverable by o/p. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 79 | CK<br>Rea Gold Corp<br>82 M/13<br>51•54'30" 119•34' 20" | Stratiform gal–sph–po–cp over a strike length of several km in several zones. Calc–silicate gneiss and bio–qtz–feld gneiss of the Upper Proterozoic–Lower Paleozoic Selkirk terrane. | **1974–76**: geoph and geochem surveys, dd.<br>**1978–80**: geoph and geochem surveys, dd in 53 holes..<br>**1986-87**: geoph and geochem surveys, dd in 92 holes.<br>**1988**: geochem and geoph surveys on northern part of the property, dd. | Ind: 1,643,000 at 8.6% Zn, 1.4% Pb, 0.25 oz/t Ag ***1980***<br>(GCNL 26/11/86) |  |
| B.C. 80 | GOTCHA<br>Troudor Res Inc<br>82 M/13<br>51•50' 119•41' 30" | Scheelite occurs in two calc–silicate skarns which replace limestone beds in a pendant of calcareous sand pelitic metasediments of the Lower Paleozoic part of the Eagle Bay Assemblage, enclosed by Cretaceous quartz monzonite stock and intruded by Early Tertiary pegmatite. | **1972–73**: geochem surveys, tr, dd.<br>**1978**: percussion drilling.<br>**1979-80**: stripping, dd.<br>**1981-82**: milling o/p ore. | Ind: 1,500 at 1.5% $WO_3$<br>5,000 at 1.2% $WO_3$<br>10,000 at 1.2% $WO_3$<br>20,000 at 0.3% $WO_3$<br>(VSE FS 21/84, Troudor Res Inc) | Stockpile.<br>In open pit.<br>O/p material.<br>In tailings pond. |
| B.C. 81 | RUDDOCK CREEK<br>Cominco L<br>82 M/15<br>51•46'37" 118•53'57" | Sph, gal, py, po, minor cp and locally barite and fluorite as contorted layers and lenses in mica schist, calc–silicate schist, gneiss and marble of the Shuswap metamorphic complex. | **1962–63**: dd.<br>**1973**: airborne geoph surveys.<br>**1975–78**: Cominco L option, dd.<br>**1982**: dd. | Dd ind: c 5 000 000 mt at 7.5% Zn, 2.5% Pb (CIM Bull, April 1982, p 119) |  |
| B.C. 82 | HAWK CREEK<br>82 N/1<br>51•06'10" 116•02'40" | Massive and disseminated sph in calcite veins and stringers in dolomitic limestone adjacent to shear zone. | **1929–32**: staked, trenching. National Parks Board disallowed further work.<br>**1942**: trenching, short adit, dd for Federal Metals Controller. | Ind: 29,500 at 12.5% Zn (BC RMM 1953, p 156) | In Kootenay National Park. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 83 | CROWN POINT<br>82 N/3<br>51°02'30" 117°08'30" | Gal and sph as veins and replacements in dragfolded and faulted Proterozoic limestone of Horsethief Creek Group. | **1898**: 150' adit.<br>**1928–36**: 4 adits and 5 raises totalling about 2,500' on the main (A) showing; 6 short adits on other showings.<br>**1948–49**: further u/g work, dd.<br>**1966**: airborne EM survey.<br>**1970**: 1,336' dd in 4 holes. | Ind: 39,530 at 3.42 oz/t Ag, 6.24% Pb, 0.18% Zn ***1948***<br>(NM 20/08/70) |  |
| B.C. 84 | REGAL SILVER, SNOWFLAKE<br>Amax of Canada L (in 1980)<br>82 N/4<br>51°11'40" 117°54'15" | At least 5 parallel qtz sulphide veins in slates of Lower Cambrian and younger age. Vein widths range from a few inches to as much as 30'. Ore shoots are extremely irregular and consist of py, sph, gal, scheelite and small amounts of stannite in a qtz gangue. | **1928–30**: Regal Silver ML – u/g work in adits.<br>**1949–54**: further u/g work, 50 t/d mill operated part time. Workings to date totalled about 15,000' in 9 adits.<br>**1967–69**: geoph and geochem surveys, 8,100' u/g work.<br>**1970**: feasibility study.<br>**1980**: dd. | 726,000 at 2.64 oz/t Ag, 2.25% Pb, 1.15% Zn ***and*** 40,000 proven–prob at 1.3% $WO_3$ ***1970***<br>(NM 26/11/70)<br>***or*** 651,200 at 2.09 oz/t Ag, 2.66% Pb, 1.26% Zn, 1.10% Cu, 0.13% Sn, 0.02% W ***1982***<br>(VSE Pros 29/04/86, Gunsteel Res Inc) |  |
| B.C. 85 | MONARCH (KICKING HORSE)<br>82 N/8<br>51°24'48" 116°26'00" | Sph, gal and py in zone of fracturing, dolomitic alteration and brecciation in Middle Cambrian dolomitic limestone of Cathedral Fm. | **1884–1918**: u/g dev in separate workings on opposite sides of Kicking Horse River; small amounts of ore shipped or milled.<br>**1928–52**: dev, 300 t/d mill operated 1929–30, 1933–35, 1940–44, 1946–52. | Ind: 30,000 at 7.4% Zn at time of closing ***1952***<br>(CMH 1954, p 18) | In Yoho National Park. The property produced 800,000 ozs Ag, 50,000 tons Pb, 78,000 tons Zn and 30 tons Cd from 800,000 tons ore treated intermittently between 1888 and 1953. |
| B.C. 86 | CANOE<br>Outland Res Corp<br>83 D/14<br>52°45'20" 119°17'20" | Muscovite in Proterozoic mica–kyanite–staurolite–qtz schist. | **c 1960–61**: test runs on 225 tons of mica products by Georgian Mnrl Ind L.<br>**1961**: 18 ddh's by Magcobar Mng CL.<br>**1978**: geoph survey, tr, dd.<br>**1983**: test plant installed.<br>**1986-87**: sampling, dd, pre-feasibility study. | Drill proven: 2,285,000 at 60.5% muscovite ***plus*** fairly assured: 1,000,000<br>(GCNL 5/03/82) | A pre-feasibility study in 1987 concluded that markets were inadequate to justify production. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 87 | LARA<br>Minnova Inc<br>92 B/13<br>48°52'50" 123°54'20" | Volcanogenic (py, sph, cp, gal and tetrahedrite) in one or more zones in Paleozoic felsic volcanics and sheared diorite of the Sicker Gp. | **1983–85**: geoph and geochem surveys, dd.<br>**1986–87**: dd, metallurgical tests and pre-feasibility evaluation.<br>**1988**: 2,300' of decline drifts, crosscuts and raises. | Ind and inf: 1,240,000 at 0.67% Cu, 0.72% Pb, 3,59% Zn, 1.98 oz/t Ag, 0.084 oz/t Au; ***includes*** a high-grade core of 583,000 at 1.01% Cu, 1.22% Pb, 5.87% Zn, 2.92 oz/t Ag, .138 oz/t Au<br>(Laramide Res, Progress Report, 08/02/88)<br>***or*** prob: 172,000 at 0.113 oz/t Au, 3.08 oz/t Ag, 0.88% Cu, 0.99% Pb, 4.86% Zn ***and***<br>poss: 239,000 at 0.092 oz/t Au, 2.24 oz/t Ag, 0.82% Cu, 1.04% Pb, 4.23% Zn<br>(Laramide Res, VSE LS 20/02/89) |  |
| B.C. 88 | TWIN "J" (TYEE)<br>Minnova Inc<br>92 B/13<br>48°52' 123°47' | Volcanogenic massive sulphides (py, cp, sph, gal, ba) in two parallel bands in Paleozoic Sicker Group cherty tuff, graphitic schist, rhyolite porphyry and diorite sills. One zone comprises py, cp, sph and gal in a gangue of barite, qtz and calcite; the other is mainly qtz and cp. | **1890s–1907**: developed as three separate operations by over 2 mi of workings in adits and a shaft. Two smelters built.<br>**1924–39**: intermittent expl and dev.<br>**1942–52**: dd, mill installed and operated part time.<br>**1969–72**: EM, IP and geochem surveys, dd.<br>**1979–80**: geoph and geochem surveys, dd.<br>**1984–88**: geoph and geochem surveys, dd. | 350,000 at 1.6% Cu, 0.12 oz/t Au, 4.1 oz/t Ag, 0.65% Pb, 6.6% Zn<br>***c 1952***<br>(NM 25/09/69) | Produced 10,000 tons Cu, 2,100 tons Zn, 200 tons Pb, 800,000 oz Ag and 38,000 oz Au from 306,000 tons ore, between 1898 and 1951. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 89 | SUNRO (JORDAN RIVER)<br>Sunro ML<br>92 C/8<br>48°27' 124°01' | Tertiary basalts of the Metachosin Complex are intruded by sill–like masses of Sooke gabbro ranging in width from 500' to 3,000'. Cp, po and py in shear zones in hornblendized basalt at gabbro contacts. | **1917–21**: u/g dev in adits, dd.<br>**1949–50**: dd.<br>**1957**: new adit driven 7,400'; dd.<br>**1961–68**: dev work; u/g mill operated intermittently.<br>**1972–74**: mill operated April 1972 to December 3, 1974. | 1,136,000 proven at 1.47% Cu ***and*** 467,184 prob at 1.33% Cu ***June 1973***<br>(NM 27/12/73) | Est 360,000 tons milled subsequent to June 1973. A total of 1,465,000 tons were milled between 1962 and 1974, yielding 15,000 tons Cu, 62,000 oz Ag, 6,000 oz Au. |
| B.C. 90 | INDIAN CHIEF<br>Texada ML (in 1973)<br>92 E/8<br>49°26'50" 126°18'35" | Skarn–hosted deposits in roof pendant limestone and volcanics of Upper Triassic Vancouver Gp overlying Jurassic Island Intrusion granodiorite. Masses and disseminations of mag, born, cp and py in garnet–epidote–actinolite skarn. | **1897–1904**: u/g work in adits.<br>**1907–09**: tramway installed and ore shipped.<br>**1917–23**: dev work with intermittent milling.<br>**1938**: dev and milling. To date about 3,250' drifts, crosscuts and raises in about 12 adits.<br>**1956–63**: geoph survey, dd.<br>**1973**: mag and geochem surveys. | 1 360 000 mt at 1.5% Cu ***1967***<br>(BC Preliminary Map 65, 1988.) | The property produced 700 ozs Au, 54,000 ozs Ag, and 1,200 tons Cu from 81,000 tons ore treated intermittently between 1904 and 1938. |
| B.C. 91 | DANZIG (SILVERADO)<br>92 E/9<br>49°37'20" 126°21'35" | Sph and minor cp, po and mag with qtz, calcite and diopside in lenses partly replacing Triassic Quatsino Fm limestone bed along a greenstone contact. | **1938**: adit driven.<br>**1948**: drifting.<br>**1951–52**: 337' drifting and 2,777' dd in 23 holes. | Some 30,000 of medium–grade Zn ***1951***<br>(Transcontinental Res L, 11th AR, Dec 31, 1951) | Assays of 15 to 20% Zn were reported from u/g work. |
| B.C. 92 | VILLALTA<br>CanaMin Res L<br>92 F/1<br>48°06' 124°28' | A lens of auriferous hematite adjacent to thinly bedded carbonates and cherts of the Buttle Lake Fm (Sicker Gp) near to diorite and dacite of both Catface and Island Intrusions. | **1977–78**: trenching and sampling.<br>**1980–81**: dd.<br>**1982**: geoph and geochem surveys.<br>**1984**: dd.<br>**1986–87**: dd and heap leach feasibility study. | Prov: 35 000 mt at 0.126 oz/mt Au<br>Dd–ind: 170 000 mt at similar grade (GCNL, 30/07/86) | Open pit material. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 93 | BLACK PANTHER<br>Black Panther Mng C<br>92 F/2<br>49°05'55" 124°36'35" | Shear zone in Sicker Gp volcanics contains py, gal, and sph in qtz lenses. | **1936–39**: u/g work in 5 short adits.<br>**1941**: u/g work in 2 new adits.<br>**1947–48**: 25 t/d mill installed and operated.<br>**1980**: geochem survey, sampling, dd.<br>**1985**: re-evaluation by Candorado Ms L. | Poss: 13,500 at 0.2 oz/t Au<br>(Sawyer Consultants Inc, 30/04/81 – in VSE SMF 115–81, Jan Res L) | |
| B.C. 94 | FANDORA<br>New Privateer ML<br>92 F/4,<br>49°14'45" 125°40'30" | Qtz and py with irregular Au values in a shear zone which in part follows a porphyry dyke cutting volcanics. | **1930**: u/g dev in adits.<br>**1946–49**: u/g dev.<br>**1958**: dev.<br>**1964**: mill (30 t/d) operated about 6 months.<br>**1980**: dd.<br>**1984**: Devon Ind Inc leased, adits reopened, sampled. | prov: 43, 000 at 0.42 oz/t Au (cut grade)<br>(New Privateer ML, 1986 AR) | |
| B.C. 95 | CATFACE<br>Falconbridge L<br>92 F/5<br>49°15'25" 125°58'50" | Qtz monzonite and quartz diorite porphyry of the Eocene Catface Suite intrudes Paleozoic Sicker Gp volcanics. Cp, bornite, chalcocite and mo in a stockwork in qtz monzonite, in porphyritic qtz diorite and in metabasalt of the Triassic Karmutsen Fm. | **1960–64**: geoph survey, 16,765' dd in about 80 holes.<br>**1967–68**: geoph and geochem surveys, 22,628' dd in 19 holes.<br>**1970–71**: adit driven 2800' with 23,697' u/g dd in 29 holes. | 181 440 000 mt at 0.45–0.50% Cu ***1971***<br>(BC RD, 1977) | |
| B.C. 96 | SHERWOOD<br>92 F/5<br>49°27'55" 125°31'20" | Au and sulphides in qtz veins and lenses in shear zone cutting volcanics and intrusives and locally following the contact. | **1940–42**: u/g work in 3 adits. Small ore shipment in 1942.<br>**1945**: sampling. | Ind: 27,830 at 0.65 oz/t Au *c* ***1945***<br>(NM 29/05/47) | In Strathcona Provincial Park; property returned to Provincial government September 1985. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 97 | APEX (TAY)<br>Dalmation Res L<br>92 F/6<br>49°18′ 125°16′ | Karmutsen volcanics intruded by Island Formation qtz diorite. Au-bearing qtz veins in a 10′ wide shear zone | **1898**: tr<br>**1907-08**: u/g dev.<br>**1960-63**: dd.<br>**1983-84**: dd.<br>**1988**: geoph and geochem surveys, dd. | 145,800 at 0.063 oz/t Au (Dalmation Res, News Release, 9/02/89) |  |
| B.C. 98 | DOMINEER (MT. WASHINGTON)<br>Better Resources L<br>92 F/14<br>49°45′30″ 125°17′50″ | A Tertiary qtz diorite stock with associated sills and breccia zones intrudes Triassic volcanics. Disseminated Au with sulphides occurs in a tabular stockwork zone of qtz py-asp veins, and as matrix replacements in diatreme and collapse breccias. | **1940-41**: adit.<br>**1944-45**: tr and adit.<br>**1974-76**: geoph and geochem surveys, dd.<br>**1983-86**: tr. dd.<br>**1987**: u/g dev.<br>**1988**: dd, metallurgical tests, prefeasibility study. | Dd–ind: 1,537,000 at 0.112 oz/t Au, 0.69 oz/t Ag (0.03 oz/t Au cut–off) (NM, 8/02/88, p 8)<br>***or***<br>Dd –ind: 274,500 at 0.184 oz/t Au, 0.74 oz/t Ag ***and*** 332,100 at 0.208 oz/t Au, 1.10 oz/t Ag (GCNL 18/05/89) | Some 420,000 tons at 0.116 oz/t Au, 0.58 oz/t Ag is mineable by o/p.<br>Open pit.<br>U/g. |
| B.C. 99 | MUREX CREEK (MT. WASHINGTON)<br>Better Resources L<br>92 F/14<br>49°45′35″ 125°15′40″ | A Tertiary eruptive centre with associated epithermal Au-bearing sulphides in Triassic basalt breccia. | **1956**: tr.<br>**1960–63**: geoph survey, dd.<br>**1966–67**: geoph and geochem surveys, dd.<br>**1983-84**: geochem surveys.<br>**1986**: dd.<br>**1987-88**: Noranda L option; geoph and geochem surveys, dd. | A large tonnage of 0.2% Cu (CIM Spec Vol 15, Table 1) |  |
| B.C. 100 | HI HO<br>92 F/16<br>49°57′ 124°22′ | Cp, minor mo dissem and in fractures in granodiorite of Plutonic Complex. | **1971–73**: geoph and geochem surveys, dd in 2 holes.<br>**1976–77**: geoph and geochem surveys, rock tr. | Inf: 82 000 000 mt at 0.3% Cu ***1978*** (GCNL 10/03/78) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 101 | LANG CREEK<br>Fargo Resources L<br>92 F/16<br>49°48'10" 124°23'00" | Germanium–bearing lignite seams up to 2.5 m thick in Upper Cretaceous carbonaceous sandstone, probably of the Nanaimo Gp. Intercalated sedimentary kaolin is underlain by kaolinized intrusive rock. | **1949**: sampling.<br>**1958–61**: tr, dd, metallurgical studies.<br>**1981**: bulk sampling, feasibility study.<br>**1986-88**: geoph surveys, drilling, beneficiation tests on kaolin. | Dd–ind: 100 000 mt at 100 g/t germanium ***1959*** (NM 01/10/59) ***or*** dd–ind: 4 to 5 million mt with a yield of c 15% kaolin product. (GCNL, 22/12/88) |  |
| B.C. 102 | LYNN CREEK<br>92 G/6<br>49°25'15" 123°03'40" | Sph, gal, po, cp and py in qtz veins or skarn in shear zones cutting a pendant of Jurassic and Cretaceous sedimentary and volcanic rocks enclosed by diorite of the Coast Plutonic Complex. | **1893–1909**: limited dev work; claims Crown–granted.<br>**1912–27**: u/g work in x–cuts and drifts; dd.<br>**1951–52**: dd.<br>**1963**: geoph survey, feasibility study. | Inf: 300,000 grade unstated ***1963*** (WM, Nov 1963, p 32) | Grade reported to be in the order of 20% Zn (NM 31/10/63). Access subject to regulations of North Vancouver Water District. |
| B.C. 103 | VIKING<br>92 G/7<br>49°21'35" 122°33'55" | Po, py, cp in qtz–calcite gangue in shear zone cutting qtz diorite of Coast Plutonic Complex. | **1897–99**: u/g dev on 3 levels in adit and shaft.<br>**1915–16**: tramline installed and small ore shipments.<br>**1920s**: hydro plant installed. Mill of 50 t/d capacity partially installed in 1929 but never completed.<br>**1979**: prospecting. | 16,000 grade unstated ***1923*** (BC RMM 1923, p 262) | Rough tonnage estimate. Recovered 232 oz Ag and 11,356 lbs Cu from 198 tons shipped in 1916. |
| B.C. 104 | BRITANNIA<br>Copper Beach Estates L<br>92 G/11<br>49°36'40" 123°08'30" | Numerous discrete volcanogenic ms sulph orebodies and mineralized lenses occur in a pendant of Upper Jurassic and Lower Cretaceous basalt, dacite, and pyroclastics and sediments enclosed by granodiorite of the Coast Plutonic Complex. The No 10 is a massive py, po, cp, sph, gal zone averaging better than 1.5% Cu and containing some Ag. | **1964**: No 10 zone discovered.<br>**1969**: u/g dev began.<br>**1970–74**: shaft, winze and trackless ramp system completed, mng and milling. Closed Nov 1, 1974.<br>**1984**: detailed mapping by Cominco L. | Meas and dd–ind: 1,570,000 at 1.9% Cu in place, in No 10 zone ***1974*** (BC GEM 1974, p 196) | The mine produced 53 million tons of Cu–Zn–Pb–Ag–Au–Cd ore between 1905 and 1974. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 105 | GAMBIER ISLAND<br>Candorado Ms L<br>92 G/11<br>49°30'35" 123°20'50" | Py–cp–mo dis in early Tertiary qtz porphyry stock and adjacent intruded andesite of Cretaceous Gambier Gp. | **1960–64**: trenching.<br>**1967**: dd.<br>**1971**: geoph survey.<br>**1978–80**: geoph and geochem surveys, dd.<br>**1981**: dd, bulk sampling, environmental studies.<br>**1985-86**: geochem survey to check for Au values. | Inf: 281,600,000 at 0.27% Cu, 0.014% $MoS_2$, 0.042 oz/t Ag, 0.001 oz/t Au *or* core zone inf: 46,400,000 at 0.32% Cu, 0.015% $MoS_2$, 0.043 oz/t Ag, 0.002 oz/t Au ***1979***<br>(NM 30/08/79) |  |
| B.C. 106 | HOWE COPPER<br>92 G/11<br>49°42'35" 123°27'10" | Biotite granite of Coast Plutonic Complex intruded by lens–like body of muscovite–granite. Cp, bornite, and minor mo disseminated in alteration zone at upper contact. Bornite, cp, cuprite, mo, with Ag values, in qtz veins. | **1874–83**: trenching, 3 adits driven.<br>**1929**: radiore survey.<br>**1966–67**: geoph survey, dd.<br>**1972**: airborne geoph survey, trenching.<br>**1975**: geol mapping.<br>**1983**: rock geochem survey. | 500 000 mt at 0.2% Cu ***c 1967***<br>(CIM Spec Vol 15, Table I, No 15, 1976) |  |
| B.C. 107 | McVICAR<br>Matachewan Cons ML<br>92 G/11<br>49°39'40" 123°01'10" | Cp and minor Pb–Zn in masses and stringers in qtz stockworks and silicified zones in Cretaceous volcanic and sedimentary rock. | **1925–28**: rad survey, dd.<br>**1950–53**: dd.<br>**1962–65**: geochem and geoph surveys.<br>**1969–70**: geochem and geoph surveys, dd.<br>**1978, 1981–83**: geochem and geoph surveys, dd.<br>**1987**: dd by Falconbridge L. | Ind: 132,000 at 2.0% Cu ***c 1928***<br>(NM 30/04/64) | Showings lack continuity. |
| B.C. 108 | ASHLOO (ASHLUCK)<br>92 G/14<br>49°56'40" 123°24'40" | Au–cp–po–py–argentite–scheelite–tellurides in quartz vein in sheared granodiorite of Coast Plutonic Complex at diabase dyke contact. | **1923**: staking<br>**1927**: dd.<br>**1932–37**: prod, u/g work.<br>**1975–77**: dd.<br>**1979–85**: dd, u/g work. | 98,500 at 0.25 oz/t Au ***1987***<br>(GCNL 12/11/87) | Previous production: 1,365 tons milled, yielding 201 952 g Au, 232 743 g Ag, 32 123 kg Cu. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 109 | CANAM<br>Bethlehem Res Corp<br>92 H/3<br>49°09'50" 121°01'25" | A pipe–like zone of brecciated sediments contains po, cp and py as pockets in the matrix and as veinlets cutting both matrix and fragments. | **1930–38**: discovery, Cominco L option – u/g work in 6 adits.<br>**1951–63**: u/g work in 3 new adits, a raise and winze, dd.<br>**1964–65**: u/g work and dd.<br>**1967–70**: geoph and geochem surveys, u/g work and dd.<br>**1980–81**: dd.<br>**1988–89**: dd, update of feasibility study. | Drill–proven: 2,777,984 at 1.35% Cu, 0.017 oz/t Au, 0.72 oz/t Ag, 0.033% $MoS_2$; inf: in order of 10 million tons at 0.6 to 0.8% Cu<br>(GM Res L, 1979 AR) | In AM zone, after dilution. |
| B.C. 110 | LUCKY FOUR<br>McNellen Res Inc<br>92 H/4<br>49°09'47" 121°34'50" | Qtz–feldspar–mica schists and gneisses occur in a skarn zone adjacent to a Tertiary granodiorite intrusive. Disseminated cp occurs in the skarn in varying amounts to form low to medium–grade zones and high–grade lenticular concentrations. | **1917–19**: adit driven, dd.<br>**1951–55**: new adit driven, dd on surface and u/g.<br>**1971**: mag survey, dd.<br>**1988**: airborne geoph survey, rock chip sampling.<br>**1989**: dd. | Inf: 28,282 at 4.3 oz/t Ag, 5.1% Cu ***1982***<br>(VSE – AL 13/83, McNellen Res Inc) |  |
| B.C. 111 | HARRISON (SENECA)<br>Chevron Canada Res L, International Curator Res L<br>92 H/5<br>49°19'00" 121°56'37" | Kuroko–type stratiform massive sulphides assoc with andesite to dacite volcanic flows and pyroclastics of mid–Jurassic Harrison Lake Fm. | **1951**: dd.<br>**1960**: adit to 470'.<br>**1964–65**: geoph survey, dd.<br>**1970–78**: geoph and geochem surveys, dd.<br>**1983**: dd.<br>**1985–86**: geoph, geochem, dd. | Dd–ind, poss, inf: 1,660,500 at 0.024 oz/t Au, 1.2 oz/t Ag, 0.63% Cu, 0.15% Pb, 3.57% Zn (undiluted) ***including*** 990,600 at 0.032 oz/t Au, 1.62 oz/t Ag, 0.84% Cu, 5.17% Zn (undiluted).<br>***1983***<br>(VSE FS 200/85, International Curator Res L) |  |
| B.C. 112 | RN (GEO)<br>Bema Gold Corp<br>92 H/5<br>49°20'10" 121°44'30" | Native Au & po, py, cp, mo in a qtz vein and fracture stockwork in a Miocene qtz diorite stock. | **1973–81**: short adit & raises; minor production.<br>**1982–86**: geochem survey, dd, bulk sampling.<br>**1987–88**: u/g exploration, bulk sampling, surface and u/g dd. | Mineable: 2,800,000 at 0.1 oz/t Au; inf: 2,100,000 at 0.1 oz/t Au<br>(Bema Gold Corp, 1988 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 113 | CAROLIN<br>92 H/6,11<br>49°30' 121°15' | Mesothermal Au–qtz veins with po, py, asp in turbiditic wackes, siltstones and conglomerates of the Jurassic Ladner Gp. | N/A | Prob: 800,000 tons at 0.13 oz/t Au<br>(NM 13/09/84) |  |
| B.C. 114 | EUREKA VICTORIA<br>Vanstates Res L<br>92 H/6<br>49°18'30" 121°27'40" | Tetrahedrite, siderite and py occur in qtz veins in shear zones in Cretaceous conglomerate of the Jackass Mountain Gp. | **1868–74**: mining in glory hole and 2 adits.<br>**1924–25**: u/g work.<br>**1962–63**: new adit and raise driven.<br>**1980**: sampling.<br>**1981**: u/g work. | Ind: 42,000 at 13.1 oz/t Ag ***plus*** inf: 12,000 at same grade<br>***1981***<br>(VSE SMF 23/83, Vanstates Res L) |  |
| B.C. 115 | SILVER CHIEF<br>Huldra Silver Inc.<br>92 H/6<br>49°25'05" 121°03'30" | Ag–bearing gal, sph and pyrite in qtz and carbonate in fault zone in argillite of Pasayten Fm. | **1910–15**: u/g work in shaft and x–cut adits.<br>**1926–27**: No 3 x–cut adit driven.<br>**1929–34**: some dev work. Mill installed and operated intermittently.<br>**1951–57**: u/g dev. Mill installed and operated 1 month; mill removed in 1957.<br>**1979–88**: geochem and geoph surveys, dd, u/g dev, feasibility study. | Prov, prob: 146,600 at 25.37 oz/t Ag, 4.53% Pb, 5.29% Zn<br>(GCNL, 20/06/89) |  |
| B.C. 116 | GRANITE MOUNTAIN<br>92 H/7<br>49°19'50" 120°52'15" | Gal, sph, W, in Au–Ag bearing qtz vein in Coast Plutonic complex granodiorite. | **1942**: trenching.<br>**1969**: adit to 150'.<br>**1979**: sampling.<br>**1980**: dd. | Poss: 80,000 at diluted grade of 0.265 oz/t Au, 2.33 oz/t Ag ***1979***<br>(R W Phendler 17/10/79 ***in*** VSE SMF 28/02/80, Northern Lights Res L) | To projected depth of 300' and mining width of 3.0'.<br>Dd in 1980 indicated much lower values. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 117 | LODESTONE MOUNTAIN<br>Imperial Metals Corp<br>Tiffany Res Inc.<br>92 H/7, 10<br>49°28′ 120°50′ | Primary magmatic disseminations of titaniferous mag and ilmenite occur in pyroxenite of Alaskan–type zoned Tulameen gabbro ultramafic of Late Triassic age. | **1955–59**: geoph surveys, tr, churn drilling.<br>**1962**: dd, bulk sampling.<br>**1965–66**: bulk sampling, metallurgical testing, percussion drilling.<br>**1973–74**: percussion drilling, feasibility studies. | Prov, poss: 205 970 000 mt at 17.56% Fe, 3 lb/mt vanadium ***1982***<br>(CMH 1985–86, p 202) | Minor platinum values. |
| B.C. 118 | CANTY<br>Golden North Resource Corp<br>92 H/8<br>49°22′40″ 120°00′10″ | Gold–bearing asp–rich skarn zones occur in folded metamorphosed rock of the Upper Triassic Hedley sequence of Nicola Assemblage adjacent to a large granitic dyke and skarnified Hedley diorite. | **1905**: shaft.<br>**1937–39**: geoph survey, dd, u/g work in shaft on 2 levels.<br>**1941**: ore shipped to Hedley mill.<br>**1946**: dd.<br>**1980**: dd.<br>**1982–83**: dd, feasibility study.<br>**1984–88**: geochem and geoph surveys, tr, dd. | Dd–ind: 656,800 at 0.154 oz/t Au.<br>(Golden North Res Corp, 1988 AR)) | Available by open pit. |
| B.C. 119 | FRENCH (OREGON)<br>92 H/8<br>49°19.5′ 120°01.4′ | Nicola andesitic pyroclastics conglomerate and limestone are intruded by mid–Jurassic Hedley diorite forming Au–rich skarns with asp, bn, cp. | **1905–17**: exploration, u/g work.<br>**1949**: dd, u/g work.<br>**1950–55**: production.<br>**1956**: u/g work.<br>**1957–61**: production.<br>**1969**: geol, tr, sampling.<br>**1976**: geol, geoch, geoph, dd.<br>**1982–84**: production.<br>**1988**: IP survey. | 8 072 mt at 9.64 g/t Au<br>(BC MINFILE 1982) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 120 | GOLD MTN (POLLOCK)<br>Banbury GML<br>92 H/8<br>49°21'20" 120°07'30" | Qtz veins in shear zones in Upper Triassic argillites and cherts near the contact with an irregular stocklike body of diorite. The qtz is locally mineralized with asp, py, sph, cp and gal. Gold is associated with the asp. Visible Au in carbonaceous stringers in altered qtz diorite. | **1900–10**: open cuts and several x–cut adits.<br>**1927–36**: u/g dev in several adits and dd.<br>**1937**: 50 ton mill operated about 4 months.<br>**1979–84**: tr, dd, u/g dev in two new adits, feasibility study.<br>**1985–88**: under option to Noranda L; geoph and geochem surveys, dd. | ***(i) South Contact zone***: prov, prob, poss: 176,369 at 0.32 oz/t Au u/g material<br>***(ii) 86 zone***: dd–ind: 1,700,000 at 0.06 oz/t Au (based on 7 ddh).<br>***(iii) 87 zone***: dd–ind: 2,300,000 at 0.04 oz/t Au (NM 04/04/88) |  |
| B.C. 121 | AXE<br>Cominco L<br>92 H/10<br>49°37'10" 120°31'30" | Felsic and mafic Jurassic intrusives in mafic Nicola volcanics. Volcanic contact areas are hornfelsic and contain cp and mo in highly fractured, pyritic zone. Three zones have been extensively explored. | **Early–1900s**: prospecting, short adit.<br>**1967–73**: IP, mag, EM and geochem surveys, dd.<br>**1981–82**: geoph and geochem surveys, dd. | ***(i) South Zone***: 41,000,000 ind at 0.48% Cu<br>***(ii) West Zone***: 6,400,000 ind at 0.47% Cu<br>***(iii) Adit Zone***: 16,000,000 ind at 0.56% Cu<br>***1973***<br>(NM 06/09/73)<br>***or*** 115,000,000 ind at 0.36% Cu<br>(NM 06/09/79) | Resource estimation is crude due to poor drill core recovery. |
| B.C. 122 | DOCTORS POINT<br>92 H/12<br>49°38' 121°59' | Quartz–py–asp and cp, mo, gal, sph veins in mid–Tertiary diorite stock and hornfelsed Cretaceous volcanic and sedimentary host rocks. | **1975**: discovery.<br>**1981**: tr, sampling, geoch, dd.<br>**1982–83**: geoch, IP, mag, dd.<br>**1985–86**: dd. | 132 300 mt at 3.5 g/t Au (Northern Miner Magazine, March 1986, p 17) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 123 | GEM<br>Gold Power Res Corp<br>92 H/12<br>49°43'12" 121°43'05" | Granodiorite, schist and gneiss host rocks of the Coast Plutonic complex intruded by a composite Miocene stock of qtz monzonite breccia, granite and aplite. Mo occurs, mainly in granodiorite, in an arcuate zone around the NE edge of the qtz–monzonite porphyry breccia. | **1930s**: prospecting, trenching.<br>**1962–64**: dd, adit driven on Mo–bearing qtz vein.<br>**1965–68**: IP, resistivity and geochem soil surveys, dd.<br>**1981**: dd.<br>**1987**: geochem survey and evaluation of Au content. | Geol: 25,000,000 at 0.15% $MoS_2$<br>(VSE LS 2956, 1983, Canamax Res Inc)<br>***or*** c 17,500,000 at 0.15% $MoS_2$<br>(VSE FS 158/88, Gold Power Res Corp) |  |
| B.C. 124 | NAGY<br>Rhyolite Res Inc<br>92 H/12<br>49°39'00" 121°59'15" | Low–grade gold values occur locally in shallow dipping Cretaceous volcanics and adjacent Miocene diorite intrusives. | **1981–83**: geoph and geochem surveys, dd.<br>**1985–86**: dd.<br>**1988**: tr, dd. | Dd ind: 120,000 at 0.06 oz/t Au<br>(GCNL 9/12/88) | O/p material. |
| B.C. 125 | PAY<br>Westward Energy & Res Corp (in 1978)<br>92 H/15<br>49°54'50" 120°34'45" | Cp, bornite and chalcocite disseminated in finely brecciated andesite in shear zone in Upper Triassic volcanics. | **1899–1913**: trenching, adit driven.<br>**1963–67**: trenching, dd, bulk sampling, bacterial leaching tests, IP survey.<br>**1973**: mag and EM surveys, dd.<br>**1978**: EM survey. | Pot: up to 20,000 at 1.20% Cu ***1973***<br>(NM 07/02/74) |  |
| B.C. 126 | PRIMER<br>Giant Pacific Petroleum Inc<br>92 H/16<br>49°45'20" 120°27'30" | Cp, py, mag and qtz as fracture fillings in Jurassic granodiorite which intrudes Nicola Group volcanics. | **1937–41**: trenching.<br>**1962**: mag, EM and geochem surveys.<br>**1966**: dd.<br>**1968–69**: IP and geochem surveys, dd.<br>**1971–73**: mag and IP surveys, dd.<br>**1977–78**: trenching, geoph survey.<br>**1979**: option by Newmont Expl of Can L, geoph and geochem surveys, dd.<br>**1984**: geoph survey. | 23 000 000 mt at 0.20% Cu c ***1973***<br>(CIM Spec Vol 15, Table 1, No 20, 1976) | Austra Res Corp. option in 1989. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 127 | PORCUPINE<br>92 I/2<br>50°02'00" 120°36'30" | Disseminated chalcocite, bornite, cp, native copper occur in a basalt bed about 10' thick in Nicola Group volcanics. | Early work in 50' shaft.<br>**1960–64**: geoph surveys, dd.<br>**1966–69**: IP and geochem soil surveys, dd.<br>**1972**: dd.<br>**1978–80**: geoph survey and dd. | 138,000 ind at 2.0% Cu ***c 1967***<br>(NM 02/02/67)<br>***or*** 500,000 poss at 1.9% Cu *c* ***1969***<br>(NM 04/12/69) |  |
| B.C. 128 | OK (ALWIN)<br>92 I/6<br>50°28'40" 121°05'50" | Cp, bornite and minor chalcocite as shear zone replacements in Bethsaida phase of the Guichon Creek batholith. | **1914–17**: u/g dev and milling in 1917.<br>**1967–72**: geoph and geochem surveys, u/g dev, dd and mill operated in 1972.<br>**1979–81**: changeover to trackless mng and mill expansion; mill operated mid–1980 to Sept 1981. | Prov: 300,000 (grade unstated) ***1983***<br>(GCNL 18/08/83)<br>***or*** ind: 1,138,910 at 0.34 oz/t Ag, 2.33% Cu (diluted).<br>***1971***<br>(VSE SMF, Apr 1971, Alwin Mng CL) |  |
| B.C. 129 | ABERDEEN<br>Teck Corp<br>92 I/7<br>50°18'10" 120°51'25" | Seams and narrow lenses of chalcocite in a fracture zone in granodiorite of the Highland Valley phase of the Guichon Creek batholith. | **1899–1905**: u/g work in shaft and adit.<br>**1915–17**: u/g work and minor prod.<br>**1925–28**: intermittent dev and minor prod.<br>**1956–60**: EM, SP and geochem surveys, dd.<br>**1969–72**: EM, mag and geochem surveys, dd. | Small tonnage of high–grade copper ore ***c 1957***<br>(Highmont Mng Corp, 1977 AR) | Produced 120 tons Cu, 9 oz Au and 780 oz Ag from 1,800 tons ore between 1907 and 1960. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 130 | ANN (GNAWED MTN)<br>92 I/7<br>50°25'15" 120°58'25" | Sulphides in veins and stringers in the pegmatite granite and grey qtz diorite of the Skeena phase of the Guichon Creek batholith. Mnrls include bornite, molybdenite, hematite, cp and covellite. Some pure molybdenite occurs as stringers in the wallrock. | **Pre–1940s**: 2 shallow shafts.<br>**1957**: acquired by BX Mng CL.<br>**1963–65**: Anaconda optioned Ann and several adjoining properties. Geochem and geoph surveys, dd.<br>**1969–70**: dd by Trojan Cons ML, which acquired control of BX Mng.<br>**1972**: name change from Trojan to BX Dev L.<br>**1976**: acquired by New Minex Res L. | 45,000,000 at 0.26% Cu, 0.005% $MoS_2$, to 400' ***1969***<br>(NM 19/03/70)<br>***or*** 47,820,000 at 0.27% Cu ***c 1972***<br>(NM 20/06/74) |  |
| B.C. 131 | JA<br>Cominco L<br>92 I/7<br>50°28'35" 120°58'30" | A small stock of qtz–plagioclase aplite grading inward to biotite–qtz monzonite occurs at the contact of Guichon variety of the Highland Valley phase and Bethlehem phase qtz diorites of the Guichon batholith.<br>Cp, bornite, mo in fractures and veins in the aplite and as weak disseminations throughout the stock. | **1971–72**: extensive dd. | 286,280,000 at 0.43% Cu, 0.017% Mo ***1973***<br>(Bethlehem Copper Corp, 1973 AR) | Preliminary o/p design to extract 125 to 150 million tons of ore. Approx 130,000,000 at 0.51% Cu, 0.027% Mo mineable by block caving. |
| B.C. 132 | JERICHO<br>Teck Corp<br>92 I/7<br>50°26'45" 120°54'30" | Sulphide–bearing stringers in the qtz diorite phase of the Bethlehem phase of the Guichon Creek batholith. Mineralization consists of bornite, cp, chalcocite plus Ag and molybdenum values. | **1956–58**: geoph surveys, dd.<br>**1960–65**: geoph surveys, dd. Two adits driven to No 1 zone, bulk sampling.<br>**1969**: IP survey.<br>**1971–73**: dd.<br>**1974**: geochem soil survey.<br>**1978**: dd.<br>**1978–81**: geochem survey, drilling.<br>**1984**: geochem survey, percussion drilling. | Ind: approx 300,000 at 1% Cu ***c 1973***<br>(Highmont Mng Corp, 1977 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 133 | LUCKY MIKE<br>Cominco L (in 1976)<br>92 I/7<br>50°18'00" 120°41'20" | Scheelite, cp, py and po in garnet skarn at limestone–greenstone contact in Upper Triassic Nicola Group rocks. | **1916–17**: staked, dd, shallow shaft.<br>**1942–43**: restaked, trenching, dd.<br>**1958–59**: dd.<br>**1971**: dd.<br>**1972**: mag, EM and geochem surveys, dd.<br>**1973**: geoph and geochem surveys.<br>**1976**: IP and geochem soil surveys. | Drill–prov: 350,000 at 0.60 oz/t Ag, 0.56% Cu, 0.30% $WO_3$ ***1973***<br>(C H Donaldson 12/07/73 – ***in*** VSE SMF 25/07/73, Brendon Res L) |  |
| B.C. 134 | MINEX (HIGHMONT)<br>Teck Corp<br>92 I/7<br>50°25'43" 120°59'28" | A 400' wide composite dyke of granodiorite, porphyry and breccia cuts qtz diorite of the Guichon Creek batholith. Cp, bornite and mo in qtz veins in breccia and adjacent rocks. | **1957**: acquired by Minex Dev L.<br>**1959**: geoph and geochem surveys, trenching.<br>**1961–62**: trenching.<br>**1963–65**: Anaconda optioned Ide and several adjoining groups. Geochem and geoph surveys, dd.<br>**1966**: trenching and dd.<br>**1968–69**: Cdn Superior Expl L option – IP and geochem soil surveys, dd.<br>**1974**: name change to New Minex Res L.<br>**1976**: claims sold to Highmont Mng Corp, dd. | ***(i) AM 32 Fr***: 12,656,000 at 0.27% Cu, 0.01% $MoS_2$<br>***(ii) Ide 2 claim***: 11,711,000 at 0.17% Cu, 0.02% $MoS_2$<br>***(iii) Ide 10, AM 12, 14 claims***: 12,000,000 at 0.16% Cu, 0.02% $MoS_2$<br>***TOTAL***: 36,367,000 at 0.20% Cu, 0.016% $MoS_2$ ***1970***<br>(Bacon & Crowhurst L 11/03/70 ***in*** VSE SMF 02/02/72, Minex Dev L) |  |
| B.C. 135 | PEN (YUBET)<br>Teck Corp<br>92 I/7<br>50°23'00" 120°57'25" | Bornite and cp in qtz veins in aplite dyke within Skeena variety of Bethsaida phase of Guichon Creek batholith. | **1965–66**: IP, mag and geochem surveys, dd.<br>**1970**: EM and IP surveys, trenching.<br>**1974**: EM survey.<br>**1983,85**: dd. | 33,750 at 2.25% Cu and 12,000 at 1% Cu ***1970***<br>(BC Asmt Rept 2901) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 136 | REY LAKE<br>Tracer Res Corp (in 1985)<br>92 I/7<br>50°20'00" 120°41'55" | Cp and mo occur as disseminations in an Upper Cretaceous qtz monzonite stock, in veinlets in the stock and adjacent Nicola Group volcanics, and in a breccia zone at the contact. | **1972–73**: geoph and geochem surveys, dd.<br>**1974–75**: dd.<br>**1982**: assessment work.<br>**1985**: option to International Santana Res, dd. | Drill ind & prob: 51,662,000 at 0.17% Cu, 0.018% Mo ***1979***<br>(R W Phendler 30/11/79 ***in*** VSE SMF 22/04/80, Tracer Res Corp) | Strip ratio 1.12:1. |
| B.C. 137 | SHEBA<br>Cominco L<br>92 I/7<br>50°26'40" 120°59'35" | Cp and bornite in fractures and qtz veins and as replacements of mafic mnrls in qtz diorite and granodiorite of Bethsaida phase of the Guichon Creek batholith. Mineralization is widely dispersed but very low–grade. | **1956–59**: staking, trenching, mag survey.<br>**1961–62**: road construction uncovered Peel showing. IP survey, dd.<br>**1967–68**: IP and geochem surveys, dd.<br>**1971–74**: geochem survey, dd.<br>**1976**: dd.<br>**1977**: Bethlehem Copper option, dd. | 250,000 at 0.7% Cu ***c 1971***<br>(BCI 92 I/SE–10) |  |
| B.C. 138 | SUNSHINE (TOLMAN)<br>CDR Res Inc (in 1980)<br>92 I/7<br>50°18'40" 120°46'10" | Py, sph, gal and cp in irregular shear zone in Triassic andesite porphyry. Three mineralized zones located. | **1964–65**: trenching, mag survey, dd.<br>**1967–68**: trenching, dd, adit driven on No 3 zone.<br>**1971–72**: u/g and surface dd.<br>**1977–78**: geoph and geochem surveys, dd.<br>**1980**: dd. | ***(i) No 3 zone***: 285,000 ind at 0.36 oz/t Ag, 1.69% Pb, 4.80% Zn, 0.18% Cu to 150' ***1971***<br>***(ii) No 2 zone***: 50,000 to 60,000, about same grade, to 100' ***1971***<br>(J P Elwell 23/06/71 ***in*** VSE SMF 08/03/72, Highland Lode ML) | Grade difficult to determine due to very poor drill core recovery.<br>Grade based on drill core and adit sampling. |
| B.C. 139 | VIMY 100<br>Lawrence Mng Corp<br>92 I/7<br>50°19'10" 120°50'35" | Bornite and cp occur in fracture zones in granodiorite of the Highland Valley phase of the Guichon batholith. | **c 1900**: u/g work in shaft.<br>**1925**: shaft deepened.<br>**1956–57**: geoph and geochem surveys, dd.<br>**1959**: trenching, dd.<br>**1970–72**: dd, geoph survey.<br>**1979–82**: geoph survey, drilling. | Dd–ind: 903,000 at 0.35% Cu ***1959***<br>(R H Seraphim 07/11/80 ***in*** VSE SMF 48/81, Lawrence Mng Corp) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 140 | WIZ 21 & 30<br>(VIMY 200)<br>Lawrence Mng Corp<br>92 I/7<br>50°20'12" 120°51'40" | A strong shear from 2 to 30' wide cuts qtz monzonite of the Guichon Creek batholith. Cp, bornite, chalcocite and native copper in clay gouge and qtz–filled fractures in the shear. Cp also occurs as disseminations in the footwall. | **1908–15**: trenching, short adits and shallow shaft.<br>**1965**: Zone 4 discovered during road construction. Mag, IP, EM and geochem soil surveys, trenching, dd.<br>**1968**: IP and EM surveys.<br>**1980–82**: geoph survey, dd.<br>**1986**: geochem survey. | Ind: 324,000 at 1.26% Cu to 250' ***1972***<br>(M H Sanguinetti 20/04/72 ***in*** VSE SMF 26/06/72, Aselo Ind L) | Zone tested to a depth of only 170'. |
| B.C. 141 | EVENING STAR (GALAXY)<br>Abermin Corp<br>92 I/9<br>50°38'35" 120°25'20" | Copper mineralization associated with a zone of altered Nicola volcanics containing widespread albitic alteration within microdiorite of the Lower Jurassic Iron Mask batholith. | **1899–1906**: u/g work in adit and shaft.<br>**1956–57**: trenching, dd.<br>**1961**: geoph surveys, trenching and dd.<br>**1965**: geoph and geochem surveys, dd.<br>**1969**: Kimberley Copper ML option – u/g work from old shaft, dd.<br>**1971**: u/g work and dd.<br>**1977**: geoph survey, dd.<br>**1987–88**: geoph survey, dd. | Ind: some 2,500,000 at 0.6% Cu, 0.015 oz/t Au<br>(Abermin Corp, Info Book, 30/12/85)<br>***or*** inf: 3,850,000 at 0.63% Cu plus elevated Au.<br>(Abermin Corp, 1988 AR) | |
| B.C. 142 | MD (KIMBERLEY)<br>Glitter Gold Mines L<br>92 I/9<br>50°37'40" 120°21' | Cp is widely disseminated in Cherry Creek monzonite porphyry breccia in the Iron Mask batholith. | **1900–02**: tr, adit.<br>**1964–66**: geoph and geochem surveys, dd.<br>**1968–69**: geoph and geochem surveys, percussion and dd. | Outlined 400,000 at 0.35% Cu<br>(VSE FS 76/87, Glitter GML) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 143 | PYTHON (MAKAOO)<br>Int'l Makaoo L<br>92 I/9<br>50°38'35" 120°23'40" | Within the Iron Mask batholith dioritic rocks adjacent to a large lens of peridotite are strongly shattered, altered with albite, and contain cp as stringers, lenses and disseminations in the shattered zone and as disseminations in the adjacent rock. | **1896–1910**: intermittent u/g work in 2 shafts and adit.<br>**1916**: dd.<br>**1955–70**: u/g dev from shaft, EM, IP and geochem surveys, dd.<br>**1972–73**: IP and geochem surveys, dd.<br>**1978–79**: dd.<br>**1987**: u/g mapping, sampling. | ***(i) Python zone***:<br>220,000 at 1.11% Cu<br>***1972***<br>***(ii) Copperhead zone***:<br>115,000 at 1.13% Cu<br>***1978***<br>***(iii) Noonday zone***:<br>600,000 at 0.74% Cu<br>***1978***<br>(C T Pasieka 06/06/80 – ***in*** VSE SMF 27/08/80, Int'l Makaoo L) |  |
| B.C. 144 | RAINBOW<br>Seadrift International Expl L<br>92 I/9<br>50°38'10" 120°27'50" | Dissemination and irregular bands of cp and py in brecciated rock within fault zones which cut the microdiorite of the Sugarloaf intrusions on the SW edge of the Lower Jurassic Iron Mask batholith. | **1896**: two 50' shafts, adit.<br>**1961**: trenching and dd.<br>**1965–69**: mag, IP and geochem surveys, dd.<br>**1971–74**: dd, IP and mag surveys.<br>**1976–77**: dd.<br>**1979**: dd.<br>**1981**: dd.<br>**1987**: geochem and geoph surveys, dd. | About 11,157,000 ind at 0.58% Cu plus 7,530,000 inf of expectedly comparable grade, to 1,000'<br>***1979***<br>(T L Sadlier–Brown 30/05/79 ***in*** VSE SMF 18/07/79, Seadrift Res L)<br>***or*** ind: 4 467 000 mt at 0.663% Cu, 0.015% $MoS_2$, 4 g/mt Ag<br>***1982***<br>(Seadrift International Expl L, Amalgamation Brochure, 16/11/88) | Would require a 1,000' shaft for mining. Requires copper price considerably above U.S.$ 1.70/lb. (in 1982 dollars) (Wright Engineers Ltd. 1982) |
| B.C. 145 | VICTOR<br>Initial Developers L<br>92 I/9<br>50°39'50" 120°26'35" | Cp and mag in diorite of the Iron Mask batholith at a faulted contact with picrite–basalt of Nicola Assemblage | **1897–1905**: intermittent u/g dev in several shafts and adit.<br>**1952**: EM survey, shaft deepened, u/g dev, dd.<br>**1956**: u/g work from shaft 90' level, dd, EM survey.<br>**1972–73**: IP, EM and mag surveys, dd.<br>**1976–77**: dd.<br>**1981**: dd.<br>**1987**: Teck Corp optioned; geochem survey, dd. | 13,000,000 at 0.7% Cu, 0.02–0.04 oz/t Au<br>(NM 10/07/80)<br>***or*** 2 400 000 mt at 0.84% Cu, 0.4 g/mt Au, 8.0 g/mt Ag ***1985***<br>(VSE FS 164/86, Initial Developers L) | Referred to as "Big Onion Zone". |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 146 | KRAIN<br>Robak Industries L<br>92 I/10<br>50°34'15" 120°59'45" | Cp, py and bornite associated with a 1 000 m x 200 m dykelike stock of qtz diorite, resembling the Bethlehem phase, intrusive into qtz diorite (Guichon variety) of the Guichon Creek batholith. | **1907**: two short adits.<br>**1955–58**: mag and geochem soil surveys, dd.<br>**1965–73**: geoph and geochem surveys, dd.<br>**1975–76**: dd.<br>**1978**: assessment work.<br>**1982**: TVR Mnrls Corp – option, geoph survey, dd in one 300 m hole.<br>**1984**: geochem survey.<br>**1986–87**: geochem survey, tr, dd. | Ind: 14 000 000 mt at 0.56% Cu, 0.01% Mo (0.3% Cu cutoff), to o/p depth of 250 m ***1972***<br>(CIM Spec Vol 15, pp 182, 185, 1976)<br>***or*** dd–ind: 32 000 000 mt at 0.37% Cu<br>(BC EXPL, 1984, p. 215.) | Of the total indicated tonnage about 9.1 million mt contain primary sulphides and 4.9 million mt contain secondary copper carbonates and oxidation products. |
| B.C. 147 | TROJAN (SOUTHSEAS)<br>92 I/10<br>50°32'30" 120°59'30" | A breccia zone (Guichon variety) of Highland Valley phase in qtz diorite of the Guichon Creek batholith adjacent to a major fault. Cp occurs in an embayment at the NW contact of the breccia zone as disseminations and locally as replacement of the matrix mnrls and in stringers and faults. | **1903**: u/g work in adits.<br>**1955–64**: u/g work in shaft and drifts, dd, IP survey.<br>**1966–68**: u/g workings extended, dd.<br>**1969–70**: geochem survey, dd.<br>**1972**: dd.<br>**1982**: geoph survey. | 17,422,000 at 0.75% Cu ***1968***<br>(NM 18/04/68)<br>***or*** 170,000 prob at 1.56% Cu, o/p material ***1972***<br>(H Brodie Hicks 27/10/72 – ***in*** VSE SMF 24/01/73, Leemac ML) |  |
| B.C. 148 | MER<br>92 I/11<br>50°30'10" 121°08'00" | Granodiorite cut by a narrow dyke of Bethlehem phase granodiorite, all of the Guichon Creek batholith. Both rocks show partial chloritization, some sericitization and qtz veining. Bornite, cp and chalcocite as disseminations and fracture platings. | **1965–66**: trenching, dd, IP survey.<br>**1969–70**: IP survey, dd. | 640,000 at 0.327% Cu in a zone 240' x 400' to 80' ***1971***<br>(E O Chisholm 30/09/71 ***in*** VSE SMF 05/05/72, Kalco Valley ML) |  |
| B.C. 149 | FERGUSON CREEK<br>Technigen Platinum Corp<br>92 I/14<br>50°56'35" 121°23'15" | Lenses of dissem chromite in Cache Creek greenstone. | **1927–31**: tr and short adit.<br>**1977**: geoph survey.<br>**1986**: geochem survey. | Ind: 20,000 at 15% $Cr_2O_3$; poss total of 50,000 ***1942***<br>(MPS MC File 167–C 1-2-27) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 150 | MAGGIE<br>Cominco L<br>92 I/14<br>50•55'30" 121•25'10" | A complex multi–phased Paleocene intrusion designated "qtz monzonite porphyry" inter-fingers with host Cache Creek ultramafics volcanics and sediments. Cp occurs in a stockwork and as disseminations throughout the porphyry. | **1890s**: shaft and drifts, adits.<br>**1952, 1963–64, 1968–69**: dd.<br>**1970**: dd encountered mineralized zone.<br>**1971–72, 1975**: dd.<br>**1977**: geoph survey. | Ind: 181 400 000 mt at 0.28% Cu, 0.029% Mo<br>***c 1971***<br>(CIM Spec Vol 15, p 329, 1976) |  |
| B.C. 151 | NORTHAIR (WARMAN)<br>Northair Ms L<br>92 J/3<br>50•07'50" 123•06' | Qtz–carbonate veins in a Jurassic–Cretaceous pendant of andesitic to rhyolitic pyroclastics enclosed by the Coast Plutonic complex, contain py, sph, gal, cp, tetrahedrite. | **1972–75**: geochem survey, tr, dd, u/g dev.<br>**1976–82**: 300 ton per day mill operated.<br>**1986**: dd on claim adjacent to the mine area.<br>**1987**: mill removed.<br>**1988**: geochem survey, dd. | Ind: 65,121 at 0.265 oz/t Au, 0.78 oz/t Ag and approximately 2% combined Pb–Zn<br>(CMH, 1986–87, p 285) | Recovered 160,000 oz Au, 780,000 oz Ag, 10.5 million lbs Pb, 13.4 million lbs Zn from 540,000 tons milled. |
| B.C. 152 | TEDI<br>Silver Tusk Ms L<br>92 J/3<br>50•05'00" 123•08'30" | Low–grade disseminations of py, cp, sph and gal, with some streaks or lenses of higher grade, occur in altered sedimentary and volcanic roof pendant rocks of Late–Palaeozoic or Early–Mesozoic age. | **1926–36**: trenching, adit driven.<br>**1967–71**: mag, EM and geochem soil surveys.<br>**1973–74**: dd.<br>**1976**: stripping in preparation for o/p mng.<br>**1977**: intermittent mng and milling Sept–Dec.<br>**1980**: mag, EM and geochem surveys, dd.<br>**1988-89**: geochem and geoph surveys by Placer Dome Inc. | Prob: 137,000 at 3.68 oz/t Ag, 0.01 oz/t Au, 0.22% Cu, 2.07% Pb, 2.04% Zn<br>***1974***<br>(NM 24/10/74)<br>***or*** ind: 137,000 at 0.03 oz/t Au, 2.5 oz/t Ag, 0.65% Cu, 5% Pb–Zn<br>***1976***<br>(NM 24/02/77) | 8 000 tonnes milled in 1977 at Sunny Cave property; in part from the Tedi open–pit. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 153 | VANSILVER (SUNNY CAVE)<br>Silver Tusk Ms L<br>92 J/3<br>50°03’55”  123°08’45” | Roof pendant sediments, greenstones and minor rhyolite, cut by a wide shear zone containing scattered lenses, disseminations and streaks of py, sph and gal. | **1923–36**: u/g work in 3 adits.<br>**1966–68**: mag and EM surveys, dd.<br>**1970–71**: EM, IP and geochem soil surveys, dd.<br>**1973–74**: dd.<br>**1977**: concentrator operated intermittently Sept–Dec.<br>**1980–83**: u/g work, dd, geoph and geochem surveys.<br>**1988-89**: geochem and geoph surveys by Placer Dome Inc. | ***(i) Block A***: 111,800 prob at 0.008 oz/t Au, 12.10 oz/t Ag, 0.19% Pb, 0.43% Zn<br>***(ii) Block B***: 161,200 poss at similar grade<br>***(iii) Block C***: 60,700 poss at 0.02 oz/t Au, 11.6 oz/t Ag, 0.27% Pb, 0.45% Zn *c* ***1974***<br>(NM 08/07/76) | Van Silver ML installed 150 t/d mill in July 1977. Not sufficient reserves to warrant production.<br>(NM 19/03/81) |
| B.C. 154 | OWL CREEK (COPPER QUEEN)<br>George Res CL<br>92 J/7<br>50°23’50”  122°47’50” | Cp, mo and py as blebs, disseminations and fracture fillings in qtz diorite, feldspar porphyry and dioritized volcanic rocks. Four showings, A, B, C, and D, over a distance of about 2.5 mi. | **1913–18**: prospecting, adit driven.<br>**1928**: dd on ‘A’ showing.<br>**1963**: trenching and sampling.<br>**1969–70**: IP, mag and geochem soil surveys and dd on ‘A’ and ‘C’ zones.<br>**1972**: mag, EM and geochem soil surveys, dd.<br>**1974**: IP, mag and geochem soil surveys, dd.<br>**1987**: geoph and geochem surveys. | ***(i) C zone***: 10–20 million ind at 0.3–0.4% Cu ***1970***<br>(NM 17/12/70) | Optioned to InterCanadian Development Corp which can earn 30% int. |
| B.C. 155 | CHALCO<br>Armeno Resources Inc<br>92 J/10<br>50°43’20”  122°38’45” | Skarn–type deposits of scheelite, cp, mo in lenses of garnet–diopside rock. | **1940–50's**: tr, adit.<br>**1969**: geoph survey, tr, dd.<br>**1980**: dd.<br>**1987**: geoph and geochem surveys, dd. | prob: 75,000–85,000 at 1.3% $WO_3$<br>6,000 T/VF at 1.18% $WO_3$, 1.5% Cu, 0.75 oz/t Ag, trace Au<br>(VSE SMF 56/87, Armeno Res Inc) | In Chalco 5 claim.<br>In eastern zone. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 156 | RUSSNOR (GRISWOLD)<br>92 J/14<br>50°54′40″ 123°25′30″ | A fracture zone at the contact between qtz diorite and younger granite contains disseminations and small pods of cp, bornite and py with minor Au and Ag values. | **1928–30**: discovery, adit driven.<br>**1970–72**: sampling in old adit, dd in 6 holes; geochem soil survey. | Ind: approx 600,000, no grade stated ***1970***<br>(NM 13/07/72) | Sampling in the adit averaged 1.31% Cu for a length of 100′. |
| B.C. 157 | BRALORNE, PIONEER<br>Bralorne Res L,<br>Golden North Resource Corp<br>92 J/15<br>50°46′50″ 122°48′50″ | Gold in qtz filled fractures with py, asp, scheelite averaging 5 to 6′ wide in Permian augite diorite and greenstone in the Cadwallader shear zone, associated with Late Cretaceous porphyry dykes. | **1892–1911**: initial work by a number of individuals or small groups.<br>**1928–59**: separate mining and milling operations by Bralorne ML and Pioneer GML.<br>**1959–71**: combined operation by Bralorne Pioneer ML.<br>**1980–82**: jv with E & B Expls Inc, surface and u/g dd.<br>**1984–85**: dd.<br>**1988**: u/g rehab and drifting; surface and u/g dd. | 1,037,538 at 0.27 oz/t Au (diluted) ***1985***<br>(Mascot GML, 1985 AR) | Between 1899 and 1971 Bralorne mine produced 2,800,000 oz Au from 5,500,000 tons milled. Pioneer mine produced 1,300,000 oz Au from 2,700,000 tons treated during the 1908–60 period. |
| B.C. 158 | CONGRESS<br>Levon Res L,<br>Veronex Res L<br>92 J/15<br>50°54′09″ 122°47′18″ | Volcanics and sediments of the Fergusson Series intruded by Cretaceous porphyry dyks and ultra-basic dykes and irregular masses of gabbro. Stibnite, asp and cinnabar occurs in narrow qtz veins in a shear zone. Gold occurs in bodies of replaced greenstone. | **1934–38**: dev work in 3 adits and internal shaft.<br>**1946–47**: u/g work.<br>**1960–62**: trenching on new vein discoveries. U/g work on Congress vein.<br>**1964–65**: trenching, dd.<br>**1977–78**: dd on new vein discovery.<br>**1983–86**: geochem and geoph surveys, dd.<br>**1987–88**: drifting and raising on Howard zone, dd, bioleach tests. | Prov, prob, poss: 669,667 at 0.24 oz/t Au ***1985***<br>(GCNL 06/02/86) | Includes some o/p material. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 159 | LITTLE GEM<br>Anvil Res L<br>92 J/15<br>50°53'50" 122°57'35" | Qtz diorite intruded by feldspar porphyry dykes and cut by a fracture system which locally contains pegmatite lenses in widths up to 7' and lengths up to 16'. The lenses are mineralized with Co, Au, U, Mo. Contains asp, mo, danaite, loellingite safflorite, uraninite. | **1934–40**: intermittent work in 2 adits.<br>**1953**: u/g dd.<br>**1956–57**: crosscutting, drifting and u/g dd.<br>**1984**: geoph survey, tr, bulk sampling.<br>**1986**: geol mapping, dd. | Ind: 20,000 at 0.65 oz/t Au, 3.0% Co, 0.25% $U_3O_8$ ***1957***<br>(CMH 1960, p 185) | |
| B.C. 160 | LUCKY JEM<br>CanAmerica Precious Metals Inc<br>92 J/15<br>50°59'30" 122°53'40" | Au–Ag–bearing qtz–asp veins with, minor Pb–Zn, occur in Upper Triassic Cadwallader group sedimentary rocks and adjacent qtz diorite of the Early Tertiary Eldorado pluton. | **1913**: tr and two adits.<br>**1940**: tr, dd, adit driven.<br>**1967**: geological mapping<br>**1975**: geochem survey.<br>**1981–87**: geochem and geoph surveys, tr, bulk sampling. | Main zone: 63,000 at 0.63 oz/t Au<br>(Golden Rule Res, 1987 AR) | |
| B.C. 161 | LUCKY STRIKE<br>CanAmerica Precious Metals Inc<br>92 J/15<br>50°59' 122°51'40" | Au–Ag–bearing asp, sph, py, jamesonite, qtz veins and shear zones occur in serpentinized ultrabasic rocks of the Cretaceous Shulaps Ultramafic Complex. | **1912**: tr.<br>**1924**: surface work.<br>**1936–37**: tr and ground sluicing, two adits driven.<br>**1967**: geochem survey.<br>**1980–85**: geochem surveys.<br>**1987**: tr, bulk sampling. | 60,000 at 0.63 oz/t Au<br>(Golden Rule Res L, 1987 AR) | |
| B.C. 162 | RELIANCE<br>Menika Mining L<br>92 J/15<br>50°52'35" 122°47'10" | Northerly–striking shear zones in Upper Triassic pillow basalt and chert of the Cadwallader Group carry values in gold and antimony. | **1910–17**: tr, antimony ore shipped.<br>**1933–37**: u/g dev.<br>**1971–73**: geoph and geochem surveys.<br>**1984–87**: geoph and geochem surveys, dd.<br>**1988**: dd. | Prov and ind: 453,000 at 0.174 oz/t Au<br>(GCNL 14/04/88) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 163 | WAYSIDE<br>Amazon Petroleum Corp,<br>Carpenter Lake Res L<br>92 J/15<br>50°52'44" 122°49'55" | Shear zone in Bralorne augite diorite at contact with Pioneer greenstone and chert contains narrow qtz veins with py, asp, cp and some free Au.<br>A recent discovery about 3 000 m from the old workings consists of massive py with cp, sph and Au–Ag values. | **1928–34**: u/g dev and some milling.<br>**1946–53**: expl and dev.<br>**1971–75**: geoph and geochem surveys, tr, dd.<br>**1979–81**: u/g rehabilitation, dd.<br>**1983–85**: geoph survey, dd.<br>**1987–88**: geochem survey, tr, dd by Chevron. | Dd–ind: c 313,000 at 0.05 to 0.15 oz/t Au, 2% Cu, 2.5% Zn ***1985***<br>(GCNL 19/06/86) |  |
| B.C. 164 | GOLDEN EAGLE<br>92 J/16<br>50°56'12" 122°15'50" | Cinnabar occurs as small veinlets, blebs, disseminations and films on fracture planes in volcanic breccia and its ankeritized equiva-lents in the Yalakom fault zone. | **1938–41**: trenching.<br>**1966–67**: trenching, 15,368' dd, adit driven 438' on No 1 showing.<br>**1972**: trenching, stripping, 800' u/g work. | Reasonably assured: 707,500 at 5.11 lbs/t Hg, ind: 1,076,000 at 3.31 lbs/t Hg, and inf: 1,826,000 at unstated grade ***1971***<br>(E P Sheppard 22/01/71 ***in*** VSE SMF 27/07/71, Condor ML) |  |
| B.C. 165 | OK<br>MV Boylan and RE Mickle<br>92 K/2<br>50°02'30" 124°38'50" | Diorite and gabbro of the Coast complex intruded by a Upper Cretaceous composite stock comprised of granodiorite with a central core of leuco-granodiorite porphyry. Cp, mo and py occur in altered granodiorite at the porphyry contact. | **1966–69**: geochem, IP, mag surveys, 16,119' dd.<br>**1972**: IP and geochem soil surveys, 14,031' dd.<br>**1973**: Sierra Empire ML option.<br>**1974**: Western ML option – 12,695' dd.<br>**1977**: dd.<br>**1980**: geoph and geochem surveys, dd.<br>**1982–83**: geoph and geochem surveys, tr. | Geol: 240,000,000 at 0.24% Cu, 0.015% $MoS_2$; ***additional*** inf: 210,000,000 of similar grade ***1984***<br>(VSE FS 277/84, Rhyolite Res Inc) | Cutoff grade of 0.2% Cu equivalent. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 166 | COPPER ROAD<br>92 K/3<br>50°11.9′ 125°18.8′ | Bornite, chalcocite, cp and native Cu in a shear zone up to 30′ wide in andesitic lavas of Upper Triassic Karmutsen Fm. | **1953–62**: prospecting, dd, trenching, shaft to 50′, small high–grade shipments.<br>**1963**: IP, 13,000′ dd in 28 holes.<br>**1965–68**: 942′ drifting and raising.<br>**1969–70**: IP, mag and geochem surveys, 6,350′ dd.<br>**1973**: dd 2 holes.<br>**1975**: trenching. | ***(i) West zone***: 91,740 dd–ind at 4.1% Cu, 0.4 oz/t Ag<br>***(ii) East zone***: 75,090 dd–ind at 2.44% Cu, 0.4 oz/t Ag<br>***1971***<br>(A F Roberts 11/05/71 ***in*** VSE SMF 24/07/72, Univex Mng Corp L) |  |
| B.C. 167 | DOE<br>92 K/3<br>50°06′07″ 125°16′00″ | Chalcocite in fractured amygdaloidal andesitic volcanics. Mineralization distributed erratically. | **1952**: dd 22 short holes.<br>**1968**: dd 20 holes. | Ind: 4,500 at 3.05% Cu<br>***1973***<br>(F G Cooke 12/04/73 ***in*** VSE SMF 07/05/73, Prince Stewart ML) | Resource estimated by Cooke based on a re–evaluation of earlier data compiled by Sheppard and Weber. |
| B.C. 168 | POMEROY<br>Quadra Bell Mng CL<br>(in 1980)<br>92 K/3<br>50°07′00″ 125°16′10″ | Chalcocite, native Cu, and cp occur in fractures, qtz calcite veinlets, amygdules, or as local disseminations in andesitic volcanic flows of the Karmusten Fm. | **1907–19**: trenching, dd, ore shipments to smelter.<br>**1952–53**: 8,800′ dd in 145 holes.<br>**1975–78**: trenching. | ***(i) Pomeroy 1***: 12,300 ind at 3.55% Cu<br>***(ii) Pomeroy 2 N***: 5,000 ind at 2.70% Cu<br>***(iii) Pomeroy 2 S***: 25,000 ind at 2.11% Cu<br>***(iv) Pomeroy 3***: 194,500 ind at 0.67% Cu<br>***(v) Pomeroy 4***: 10,500 ind at 2.69% Cu<br>***(vi) Beaver 1***: 18,000 ind at 1.74% Cu<br>(F G Cooke 12/04/73 ***in*** VSE SMF 07/05/73, Prince Stewart ML) | Resource estimates by Cooke are based on a re–evaluation of earlier data compiled by Sheppard and Weber. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 169 | ALEXANDRA<br>(ALEXANDRIA)<br>Charlemagne Res L<br>92 K/6<br>50°29'20" 125°22'45" | Py and cp (carrying Au and Ag values) in qtz veins in sheared contact between Jurassic to Cretaceous Coast Plutonic complex diorite and Paleozoic–Triassic metasediments and metavolcanics. | **1897–98**: several adits.<br>**1923**: raise from No 1 adit.<br>**1927–31**: u/g work in 5 adits and 268' shaft.<br>**1934**: u/g work.<br>**1939–40**: mng over several months.<br>**1976**: geochem survey.<br>**1980**: Corpac Mnrls L, option, geochem survey.<br>**1983**: u/g dev and dd.<br>**1985–87**: geochem and airborne geoph surveys, dd. | 26 500 mt at 10.0 g/mt Au<br>(BC EXPL, 1986, p C274) | |
| B.C. 170 | COLOSSUS<br>Sancono Ventures Inc<br>92 K/11<br>50°31'55" 125°12'05" | Streaks and patches of cp and mo in qtz veins in fault planes where intermediate to mafic (dioritic?) dykes intrude Jurassic to Cretaceous Coast Plutonic complex granodiorite. | **1892–1903**: about 3,000' u/g work in 3 adits.<br>**1961**: u/g dd 363'.<br>**1966–68**: geoph surveys, 5,047' dd in 33 holes.<br>**1980**: sampling.<br>**1987**: geoph and geochem surveys. | 130,000 at 2–3% Cu<br>***1929***<br>(FR 22/08/66) | |
| B.C. 171 | BIG STAR (NORTH STAR)<br>92 L/2<br>50°00'48" 126°46'40" | Qtz stringers containing py, asp, sph and gal in shear zone in qtz diorite. | **1937–42**: u/g dev in 2 adits. Ore trammed to mill on adjacent Spud Valley property.<br>**1946**: reopened, new adit begun 300' below old No 3 adit. Work suspended due to a fire. | 70,000 at 0.136 oz/t Au at time of closing ***June 1942***<br>(Spud Valley GML, notice to shareholders 18/12/42) | Prod included in Spud Valley. |
| B.C. 172 | SPUD VALLEY (ROPER)<br>McAdam Res Inc<br>92 L/2<br>50°00'52" 126°47'45" | Qtz–sulphide veins in shear zones in qtz diorite of the Tertiary age Zeballos stock. Sulphides include py, sph, gal and asp. | **1935–37**: u/g dev in 3 adits.<br>**1938–42**: 125 t/d mill installed and operated.<br>**1985–88**: u/g rehabilitation of # 7 level, u/g and surface dd, u/g dev, #8 level established.<br>**1989**: test mill installed. | 55,000 at 0.136 oz/t Au in old workings at time of closing ***1942***<br>(Spud Valley GML, notice to shareholders 18/12/42)<br>***or*** prov, prob, poss: 243,005 at 0.314 oz/t Au<br>(McAdam Res Inc, 1988 AR) | Prod 1936–51: 54,000 ozs Au, 18,000 oz Ag, 10 tons Cu, 9 tons Pb from 210,000 tons ore (includes Big Star).<br>In four veins. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 173 | UEBEL (FERN HILL)<br>Pierce Mountain Res L<br>92 L/2<br>50°01'55" 126°48'55" | Cp, py, and po in two zones about 40' apart in quartz–diorite breccia of Lower Jurassic Bonanza Fm near contact with Eocene quartz diorite dyke. | **1961**: mag survey and 5,732' dd in 24 holes.<br>**1964, 1971**: dd.<br>**1988**: sampling for Au–Ag values. | ***(i) A zone***: 97,000 at 1.98% Cu<br>***(ii) B zone***: 64,000 at 2.02% Cu<br>***1961***<br>(NM 29/03/62) | |
| B.C. 174 | YREKA<br>92 L/5<br>50°27'25" 127°33'55" | Skarn–hosted po, cp and py with Au–Ag values in tuffs overlying andesitic lava and underlying andesitic flows and tuffs all of the Lower Jurassic Bonanza Gp. | **1898–1905**: mng from open cut and u/g work in 3 adits.<br>**1916–17**: open cuts and 2 new adits; ore shipped.<br>**1951–56**: trenching, dd, 2 new adits driven.<br>**1965–67**: u/g work; mill operated Nov '65–Sept '67.<br>**1979–80**: rehabilitation of u/g workings, dd and percussion drilling. | Ind: 118,450 at 1.05% Cu, 0.02 oz/t Au, 0.60 oz/t Ag<br>(C W Ball, 23/03/81 ***in*** VSE SMF 61/81, Uke Res L) | |
| B.C. 175 | COAST COPPER<br>Quatsino Copper–Gold Ms L<br>Taywin Res L<br>92 L/6<br>50°22'50" 127°14'30" | Cp, bornite and mag in a skarn zone at the contact of Karmutsen andesitic volcanics and Quatsino limestone near diorite–gabbro of Jurassic Island Intrusions. | **1915–31**: extensive u/g work in adits and shaft.<br>**1960–64**: 750 t/d mill installed and in prod.<br>**1965–70**: drift extended 5,000' into adjacent Merry Widow property and 3 ore zones located by dd. Decline driven 6,275', prod began from this area.<br>**1972**: mine closed in Nov.<br>**1989**: sampling in Merry Widow o/p, dd for Au values. | 501,000 at 1.3% Cu, 33.3% Fe, 0.02 oz/t Au<br>***1973***<br>(VSE SMF 22/09/75, Quatsino Copper–Gold ML) | In Merry Widow section. Produced 1962–1972: 45,000 tons Cu, 577,000 tons Fe concentrate, 122,000 oz Au and 174,000 oz Ag from 2,800,000 tons ore. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 176 | PILGRIM<br>Alice Lake Ms L<br>92 L/6<br>50°25'50" 127°24'00" | Po, sph, asp and gal with calcite and qtz replacing Upper Triassic Vancouver Group limestone adjacent to a qtz porphyry dyke. | **1903–06**: trenching.<br>**1929**: dd.<br>**1973–75**: Zeballos Dev CL lease – dd and o/p preparation. Prod lease issued but short of funds.<br>**1978**: Astra Res L option – mag survey, some ore stockpiled.<br>**1980**: metallurgical studies. | Proven: 50,000 at 8.7% Zn, 0.95 oz/t Ag *and* prob: 51,000 (no grade stated), to 50' ***1974***<br>(VSE SMF 24/81, Alice Lake ML) | Includes some 3,600 tons on the adjacent Catherine claim, held by Ican Minerals L. |
| B.C. 177 | ZIP<br>West–Mar Res L<br>92 L/7<br>50°21'50" 126°54'40" | Upper Triassic Karmutsen volcanics and Quatsino limestone intruded by qtz diorite to granodiorite of Jurassic Island Intrusions. Gal, sph, po, cp and py skarn in limestone or volcanics at the intrusive contact and as replacements in limestone. | **1930**: Cominco L option, trenching.<br>**1948**: trenching.<br>**1966**: Cominco L, geochem survey.<br>**1968**: geochem soil survey, trenching, 750' dd in 8 holes.<br>**1970–73**: mag and geochem surveys.<br>**1981–82**: geoph and geochem surveys, dd.<br>**1985**: geoph survey, dd.<br>**1988**: dd. | Ind: 92,500 at 1.69% Cu, 3.7% Pb, 12.5% Zn, 1.88 oz/t Ag ***1981***<br>(GCNL 7/12/88) |  |
| B.C. 178 | CALEDONIA<br>Hisway Res Corp<br>92 L/12<br>50°38'55" 127°36'15" | Epidote–garnet skarn containing mag, cp and sph at Upper Triassic Quatsino limestone Island Intrusions granodiorite contact. | **1927–29**: several hundred feet u/g work in adit.<br>**1966–73**: mag and geochem surveys, dd. | 75,000 at 0.01 oz/t Au, 20.54 oz/t Ag, 6.09% Cu, 0.6% Pb, 7.45% Zn, outlined by u/g work to 1929.<br>(D C Malcolm 24/04/72 *in* VSE SMF 05/07/72, North Island ML)<br>*or* 75,000 at 20 oz/t Ag, 6% Cu, 4% combined Pb–Zn<br>(GCNL, 4/08/89) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 179 | HEP<br>Moraga Res L<br>92 L/12<br>50°41'40" 127°53'20" | Py, cp, mo occur in qtz filled fractures and dissem in altered andesite flows and tuffs of theLower Jurassic Bonanza Fm. Propylitic and argillitic alteration and silicification of volcanics related to Late Jurassic quartz monzonite intrusion. Mineralization concentrated at intersection of two shear zones. | **1966–77**: geoph and geochem surveys, dd. | c 50,000 at 0.80% Cu (VSE, Pros, 26/07/88, Moraga Res L) |  |
| B.C. 180 | HUSHAMU LAKE (EXPO)<br>BHP–Utah Ms L<br>Moraga Res L<br>92 L/12<br>50°40'35" 127°51'25" | Py, cp, mo and Au values occur in an alteration zone in Lower Jurassic volcanics which are locally cut by granitic intrusives. | **1968–77**: geoph and geochem surveys, dd.<br>**1981–86**: geoph and geochem surveys, dd.<br>**1988**: dd, soil sample reassaying for Au values. | Ind, mineable: 57,500,000 at 0.32% Cu, 0.008% Molybdenum, 0.012 oz/t Au (VSE, Prospectus, 26/07/88, Moraga Res L) |  |
| B.C. 181 | NAHWITTI LAKE (H.P.H.)<br>Hisway Res Corp<br>92 L/12<br>50°41'40" 127°47'25" | Skarn with mag, py, po and minor cp, sph in Upper Triassic Quatsino Fm limestone at or near contact with late Jurassic felsite dyke. Largest zone is 12' or more in length and from a few inches to about 12' wide. | **1930–31**: trenching, u/g work in adit and shallow shafts.<br>**1966–73**: mag, IP, EM and geochem surveys, trenching, 4,733' dd in 38 holes.<br>**1987**: geoph survey.<br>**1989**: geoph surveys, tr. | Pot: 50,000 Pb–Zn, grade unstated ***1966*** (BC Asmt 870, 1966, Giant Expls L *in* BCI 92L – 242) | Assay over 8': 2.48 oz/t Ag, 0.60% Pb, 2.06% Zn. |
| B.C. 182 | RED DOG<br>Crew Natural Res L,<br>Asia Pacific Res L<br>92 L/12<br>50°42'50" 127°57'40" | Porphyry deposit. Cp as fg dissem and in fractures in hornfels; also in assoc. with mag in siliceous breccia; mo on fracture surfaces and in qtz–sericite veins following shear zones. Host rocks are Lower Jurassic Bonanza Gp. tuffs metamorphosed to hornfels in contact zones with silicification, and hydrothermal alteration. | **1967–72**: geochem and geoph surveys, dd.<br>**1988**: dd. | Prel dd–ind: 70,000,000 at 0.6% Cu equivalent. (GCNL 23/11/88). *or* in excess of 50,000,000 – open pittable at c 0.32% Cu, 0.012 oz/t Au (Cu equivalent of 0.70%) (GCNL 5/01/89) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 183 | MORRIS<br>Stryker Res L<br>92 N/8<br>51°23'40" 124°25'40" | Narrow gold–silver–stibnite-bearing qtz veins occur in Triassic sediments which have been intruded by qtz-feldspar porphyry dykes and by qtz diorite of the Coast Range batholith. | **1907–11**: two adits driven.<br>**1920–22**: surface prospecting, trenching.<br>**1934–37**: No 1 adit extended.<br>**1968**: geol mapping, sampling.<br>**1980–81**: sampling, dd.<br>**1983**: sampling. | Poss: 38,000, grade unstated Au–Ag–Sb (GCNL 30/08/82) | In No 1 vein over 190 m strip length and 84 m in depth. Bulk sample assay: 0.79 oz/t Au, 12.57 oz/t Ag, 2.92% Sb. |
| B.C. 184 | SPOKANE<br>92 N/8<br>51°23'50" 124°25'15" | Cp and bornite as dis and fracture fillings in Upper Triassic andesite of the Takla Group. | **1907–10**: u/g work in 2 adits.<br>**1968**: geol mapping, sampling.<br>**1980**: sampling. | 1,500' x 20' at 1.04% Cu (R W Phendler, 23/09/68 – as reported by C W Ball in SMF 114/81, Stryker Res L)<br>*or* inf: 335 664 mt at 1.2–1.5% Cu (BCI 92 N–1) | |
| B.C. 185 | EMPIRE MERCURY<br>Sovereign Mtls Corp (in 1976)<br>92 O/2<br>51°03'28" 122°46'26" | Disseminated cinnabar in calcite veins in two shear zones in green Palaeozoic volcanics. | **1931**: adit.<br>**1936–39**: about 2,400' of u/g work in 9 adits. Ten-ton rotary furnace put in operation in 1938, closed 1939.<br>**1940–41**: minor prod and u/g work.<br>**1965–66**: percussion drilling in 44 holes.<br>**1969**: u/g dd in main zone. | Prob: 700,000 at 1.1 lb/t (0.5%) Hg ***and*** poss: 700,000 (same grade) to 250' ***1967***<br>(CMJ Nov 1969, p 11) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 186 | POISON MOUNTAIN<br>Lac Mnrls L<br>92 O/2<br>51°08'00" 122°36'50" | Zoned Eocene intrusives with a core of hornblende–qtz monzonite porphyry and gradational border phases in part comprising biotite–qtz monzonite, emplaced in greywacke, argillite and conglomerate of the Lower Cretaceous Jackass Mountain Group. Py, cp, mo and bornite as vein and fracture fillings and disseminations, mainly in and near the perimeter of the intrusive core. | **1935, 1941**: trenching.<br>**1956**: stripping, dd.<br>**1959–60**: mag and geochem surveys, dd.<br>**1966–71**: mag, IP and geochem surveys, 10 068 m dd.<br>**1979–80**: dd. | Dd ind: 304 000 000 mt at 0.30% Cu, 0.008% Mo, 0.005 oz/t Au ***1981*** ***or*** dd ind: 529 000 000 mt at 0.24% Cu, 0.007% Mo, 0.004 oz/t Au ***1981*** (TSE LS, 2/11/81, Long Lac Mnrls L) | At 0.3% Cu/Au equivalent cutoff. Stripping ratio estimated at 0.7:1. |
| B.C. 187 | SILVERQUICK<br>Quicksilver Res L<br>(in 1978)<br>92 O/2<br>51°02'30" 122°49'00" | Cinnabar as disseminated grains, streaks, small lenses and smears on fault surfaces in brecciated Jurassic conglomerate. | **1943**: trenching.<br>**1963–64**: surface work, installation of 10 t/d reduction plant which operated briefly.<br>**1966**: geochem survey, trenching, 538' dd.<br>**1968**: construction of 500 t/d mill about 80% completed. O/p preparation. | Proven: 390,000 at 2 lb/t Hg (0.1%), with larger quantities of lower grade available ***1968*** (NM 25/09/69) | "Not enough data for proven". Activity ceased due to fall in price of Hg. (L K Requa 19/07/71 ***in*** VSE SMF 18/04/72, Silverquick Dev C (BC) L). |
| B.C. 188 | BUZZER<br>Alpine Expl Corp,<br>Westley Mines L<br>92 O/3<br>51°06'05" 123°21'00" | Cp and minor mo as disseminations and vug fillings in Cretaceous and/or Tertiary porphyritic granodiorite. | **1928–30**: trenching.<br>**1965–66**: geoph and geochem surveys, trenching, dd.<br>**1988–89**: dd. | Dd ind: 5,500,000 at 0.35% Cu, 0.031% Mo (GCNL 11/08/89) |  |
| B.C. 189 | EMPRESS<br>Alpine Expl Corp<br>Westley Mines L<br>92 O/3<br>51°06'20" 123°24' | Cretaceous volcanics at contact with the Coast Plutonic complex are extensively altered and contain py, cp, mo dissem and in fractures and veins accompanied by low Au–Ag values. | **1935**: tr.<br>**1956**: dd.<br>**1968–70**: geoph and geochem surveys, diamond and percussion drilling.<br>**1975–76**: percussion and dd.<br>**1988–89**: geochem surveys, dd. | Potential for one or more, high grade, low tonnage (1 million tons) Cu–Au deposits. | Drill hole 76–3: 52 m at 1.28% Cu, 0.059 oz/t Au; drill hole 88–7: 45.3 m at 0.53% Cu (Westpine Metals L, Prospectus, 6/07/89 |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 190 | MOHAWK<br>92 O/3<br>51°05'50" 123°23'15" | Cp and py in qtz veins and disseminations in a steep dipping fracture zone in qtz diorite of the Coast Range batholith. | **1927–35**: trenching, sampling, and 450' adit driven.<br>**1956**: trenching.<br>**1969–70**: geoph and geochem surveys, dd.<br>**1975**: dd on Mohawk and/or adjacent properties.<br>**1982**: tr, sampling.<br>**1986**: dd, bulk sampling. | Potential of about 150 000 mt ***1976***<br>(BC GF 1976, p 51) | In known zone to depth of 30 m. Grades estimated to be well below surface values of 0.15 oz/t Au and 0.75% Cu. |
| B.C. 191 | ROWBOTTOM<br>United Gunn Res L<br>92 O/3<br>51°02'20" 123°22'10" | Py, cp and mo as fracture fillings and dissem in a qtz feldspar porphyry stock and adjacent qtz diorite. | **1964**: tr.<br>**1969–72**: tr, dd.<br>**1980–81**: tr, dd. | Inf: 20,700,000 no grade stated<br>(CMH 1988–89, p 451) | 1970 drill hole assays: 330 ft at 0.23% Cu, 0.011% $MoS_2$ and 360' at 0.12% Cu, 0.007% $MoS_2$. Assays indicate a trace of gold and up to 0.1 oz/t silver. |
| B.C. 192 | SPOKANE<br>Mac Neill Industrial Corp,<br>Julia Res Corp<br>92 O/3<br>51°05'20" 123°26'50" | Py and cp in fractures, veins and shear zones, and as sparse disseminations in an irregular area about 250' x 500' in altered granodiorite of the Coast Plutonic complex. | **1922–27**: trenching and sampling.<br>**1956**: dd in 3 holes.<br>**1968–70**: geoph and geochem surveys, dd.<br>**1975**: dd on Spokane and/or adjacent properties.<br>**1989**: dd. | Inf: 3,500,000 at 1.99% Cu, 0.111 oz/t Au, 0.56 oz/t Ag ***1975***<br>(GCNL 7/03/83) | In a surface area 500' long by 400' wide. |
| B.C. 193 | HI DO (PELLAIRE)<br>Lord River GML<br>92 O/4<br>51°05'50" 123°36'17" | Qtz veins in metavolcanics, where they form a fault–controlled embayment into Coast granodiorite, contain py, cp, gal, sph, asp, tetrahedrite and hessite. | **1937–38**: trenching, adit driven.<br>**1945–47**: 2,955' u/g work in 6 adits, dd in 3 holes.<br>**1973**: stripping, resampling.<br>**1980–81**: u/g work.<br>**1987–88**: u/g work, dd. | Inf geol: 34,000 at 0.67 oz/t Au, 2.0 oz/t Ag<br>(Silver Standard, Semi–Annual Rept, 21/11/80) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 194 | FISH LAKE<br>Taseko ML,<br>Cominco L<br>92 O/5<br>51°27'50" 123°37'20" | Cp and bornite in a stockwork in Late Cretaceous qtz diorite porphyry. | **1961–70**: geochem and mag surveys, dd.<br>**1972–74**: dd 17,534' in 27 holes.<br>**1978–82**: Bethlehem Copper Corp option, geoph and geochem surveys, dd.<br>**1984**: Cominco L, dd.<br>**1986**: metallurgical tests. | Inf: 201,000,000 at 0.24% Cu, 0.015 oz/t Au, 0.033 oz/t Ag ***1981***<br>(NM 25/11/82) | Tests indicate 93% of gold recoverable by cyanidation. |
| B.C. 195 | BONAPARTE (DISCOVERY ZONE)<br>Inter–Pacific Res Corp,<br>QPX Minerals Inc<br>92 P/1<br>51°00'20" 120°27' | Au–bearing qtz veins with minor py, po, cp, mo cut Triassic–Jurassic quartz diorite stock and dyke rocks and adjacent pelites and argillites. | **1983–85**: regional geochem surveys.<br>**1985–89**: geoph and geochem surveys, tr, dd. | Identified 10,000 at 0.6 oz/t Au<br>(QXP Minerals Inc, News Release, 6/12/88) | |
| B.C. 196 | VIDETTE<br>Tugold Res Inc<br>92 P/2<br>51°10'05" 120°54'20" | Au in narrow qtz veins in andesite flows of the Nicola Fm. | **1931–40**: 3 adits, 3 shallow shafts, prod from 25–40 t/d mill.<br>**1983–84**: geoph and geochem surveys, u/g sampling, dd.<br>**1986**: geoph survey. | Prob: 11,200 at 0.558 oz/t Au, 0.87 oz/t Ag<br>(VSE FS 41/85, Tugold Res) | Remaining in the old workings which yielded 54,000 tons Au–Ag–Cu ore in 1933–40. |
| B.C. 197 | CHU CHUA<br>Minnova Inc<br>92 P/8<br>51°22'10" 120°03'30" | Volcanogenic massive sulphide deposit in pillowed tholeiitic basalt and cherty tuffs of the Upper Palaeozoic Fennell Fm. | **1978–79**: geochem and geoph surveys, dd.<br>**1980–81**: extensive dd on adjacent claims.<br>**1982**: dd on the deposit.<br>**1985–89**: geochem and geoph surveys, dd in adjacent areas and on the open pittable part of the deposit, metallurgical testing. | 2 to 4 million mt at 2% Cu, 0.5 g/t Au, 8 g/t Ag, 0.03% Co, 0.5% Zn<br>(FS 248/80 Pacific Cassiar L)<br>***or*** ind: (in upper 200 m) 2 500 000 mt at 2% Cu, 0.5% Zn, 0.5 g/mt Au, 9 g/mt Ag, 0.05% Co ***plus*** 180 000 mt of talc and 450 000 mt of mag<br>(GCNL 05/12/84) | Quinterra Res Inc, International Vestor Res L, Pacific Cassiar L joint venture. Minnova Inc can earn 50% int.<br>c 1.7 million t mineable by open–pit; a high grade zone is estimated as 460,000 t at 4.07% Cu<br>(GCNL 30/05/89) |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 198 | WINDPASS, SWEET HOME<br>Kamad Silver CL<br>92 P/8<br>51°26'35" 120°05'10" | Erratic Au values and Cu, Ag, Bi in narrow mag–qtz veins in pyroxenite sill in Mississippian or later volcanics and sediments of the Fennell Fm. | **1916–39**: several thousand feet of dev in adits and inclined shafts.<br>**1969–72**: geoph surveys and dd.<br>**1980**: sampling.<br>**1982–83**: dd.<br>**1987**: geoph survey, tr, dd. | Ind: 36,000 at 0.204 oz/t Au;<br>ind: 17,800 at 0.02 oz/t Au<br>(Sookochoff, L 12/04/73 *in* VSE SMF 20/08/73, Dalton Dev L) | In Windpass dump.<br>In Sweet Home dump. |
| B.C. 199 | TIM<br>92 P/14<br>51°56'30" 121°15' | Cp, py, bornite dissem and in fractures in Upper Triassic Nicola group volcanics near shear zones and syenodiorite dykes. | **1966–68**: geochem and geoph surveys, dd.<br>**1972**: airborne geoph survey.<br>**1980–83**: geochem and geoph surveys, dd. | Dd–ind: 82,850 at 2.14% Cu, 0.35 oz/t Ag ***1983***<br>(GCNL 06/12/83) |  |
| B.C. 200 | BOSS MOUNTAIN<br>Noranda Ms L<br>93 A/2<br>52°05'45" 120°54'25" | Mo occurs in qtz veins, fracture zones and in breccia matrix hosted by felsic dykes and breccia related to the Middle Cretaceous Boss Mountain stock which intrudes the Early Jurassic Takomkane batholith hosted by volcanic rocks of Nicola Assemblage. | **1917**: tr, sampling.<br>**1930–37**: tr.<br>**1942**: dd by BC Dept. of Mines.<br>**1956–59**: geoph survey, tr, dd.<br>**1961–64**: geoph and geochem surveys, tr, dd, u/g dev.<br>**1965–71**: production.<br>**1972–73**: geoph & geochem surveys, dd, u/g dev.<br>**1974–83**: production; in part from open pit. | 4,232,000 at 0.135% Mo (Noranda Mines, 1984 AR) | Includes open pit reserves reported in 1980 as 2,600,000 tons at 0.11% Mo<br>(Noranda 1980 AR) |
| B.C. 201 | EUREKA PEAK<br>E Scholtes and J Carson<br>93 A/7<br>52°19' 120°38' | Cp, po, py in pods, veins and dissem in granodiorite and augite porphyry within an Upper Triassic volcanic sequence. | **1965–66**: geoph and geochem surveys, dd, short adit driven.<br>**1969–70**: geochem surveys, tr, dd.<br>**1972**: geol mapping, sampling.<br>**1974**: IP survey, dd.<br>**1983–84**: geochem surveys. | An inner "core" 4,000' to 6,000' by 800' with grades from 0.13% to 0.44% Cu is surrounded by an outer shell of about 0.10% Cu ***1984***<br>(VSE SMF 25/05/84, Nirvana Oil and Gas Ltd) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 202 | FRASERGOLD<br>Eureka Res Inc, Southlands Mining Corp<br>93 A/7<br>52°18'10" 120°34'20" | Au occurs mainly in qtz veins and lenses in an Upper Triassic phyllite of sedimentary origin. | **1980**: geochem survey.<br>**1983–84**: dd.<br>**1985–86**: geochem survey, tr, dd, bulk sampling.<br>**1987–88**: u/g dev, pilot mill tests, drilling. | Ind: c 1,200,000 at 0.4 oz/t Au<br>Ind: 20,000,000 at 0.06 oz/t Au<br>(GCNL, 16/04/87)<br>*or* Indication of 2,130,000 at 0.141 oz/t Au<br>(Southlands Mining Corp, News Release, 26/04/89) | U/g material.<br>O/p material. |
| B.C. 203 | EAGLET<br>Eaglet Ms L<br>93 A/10<br>52°34'10" 120°59'10" | Fluorite as concordant disseminations, veinlets and veins up to 6" thick, and irregular masses in Late Devonian qtz–felds augen gneiss. Ag, Mo, W, Pb and Zn are widely distributed in the Fluorite zone. | **1946**: discovery.<br>**1966**: tr, percussion drilling, bulk sampling.<br>**1971–75**: tr, bulk sampling, dd.<br>**1980–82**: 2 adits, No 1–976'; and No 2–280'. Dd to date 50,762' in 100 holes.<br>**1983**: u/g work, dd, metallurgical studies.<br>**1985**: dd. | Dd–ind: c 24 000 000 mt at 11.5% fluorspar ***1983***<br>(Eaglet Ms L 1984 AR) | |
| B.C. 204 | CPW<br>Pundata Gold Corp<br>93 A/11<br>52°35' 121°27' | Native Au occurs in py associated with qtz veinlet swarms in Upper Triassic shales. | **1983–86**: geochem surveys, tr, dd.<br>**1987–88**: dd. | 924,000 at 0.057 oz/t Au<br>(Trio Gold Corp, 1988 AR) | In Main (Madre) and LE zones. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 205 | CARIBOO BELL<br>(MT. POLLEY)<br>Imperial Metals Corp<br>Corona Corp<br>93 A/12<br>52°33'13" 121°38'42" | Porphyry–type copper–gold (mag–cp–py) mineralization in intrusive breccias in an Early Jurassic syenite laccolith emplaced in Upper Triassic Nicola trachybasalts and volcaniclastics of the Quesnel Trough. | **1965–67**: geochem and mag surveys, dd 48,301' in 32 holes.<br>**1970**: mag, IP and geochem surveys, dd.<br>**1972–73**: geochem surveys, dd.<br>**1977**: dd.<br>**1979–80**: metallurgical testing, drilling to date 91,079' in 226 holes.<br>**1981–89**: geochem and geoph surveys, dd, metallurgical tests, feasibility study. | Dd ind: 128,000,000 at 0.31% Cu, 0.012 oz/t Au ***1984***<br>(Mascot GML, 1985 AR)<br>***or*** mineable: 53,000,000 at 0.44% Cu, 0.017 oz/t Au<br>(Imperial Metals, 3rd Q Report 31/12/88) | O/p material with strip ratio of 1.9 to 1 |
| B.C. 206 | QR (QUESNEL RIVER)<br>Placer Dome Inc<br>QPX Minerals Inc<br>93 A/12<br>52°40' 121°42' | Nicola Group sediments and augite basalts intruded by a diorite–monzonite stock of Early Jurassic age. Py and minor cp with Au, Ag values occur as replacement deposits in altered tuffs. | **1978–81**: geoph and geochem surveys, dd.<br>**1982–83**: dd.<br>**1984**: dd on West zone.<br>**1985–88**: geochem survey, preliminary feasibility study, dd; totals to date, 44 650 m in 264 ddh and 4 300 m in 56 percussion holes. | 814,000 at 0.13 oz/t Au<br>152,000 at 0.26 oz/t Au<br>(QPX Minerals Inc, Progress Summary, April 1989) | O/p mineable in Main zone.<br>U/g material in West zone |
| B.C. 207 | CARIBOO HUDSON<br>Cathedral Gold Corp<br>93 A/14<br>52°53'20" 121°19'40" | Au in qtz veins in Cambrian qtzt and schist. | **1923**: u/g work in one adit.<br>**1929**: new adit driven.<br>**1936–39**: u/g work and small prod.<br>**1946–48**: u/g work and dd.<br>**1973–78**: geoph and geochem surveys.<br>**1980**: geochem surveys.<br>**1983**: geochem survey, dd.<br>**1986–87**: geochem surveys, u/g rehabilitation, dd. | Dd ind: 60,000 at 0.4 oz/t Au, 0.5 oz/t Ag<br>(VSE LS, July 1985, Imperial Metals Corp)<br>***or*** dd ind: 36,000 at 0.36 oz/t Au<br>(Cathedral Gold Corp, 1987 AR) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 208 | HD (GUNN ZONE)<br>Cuisson Lake ML<br>93 B/9<br>52°30'05" 122°13'40" | Cu occurs in a stockwork in qtz diorite. | **1967–68**: IP and mag surveys, dd.<br>**1970–71**: dd 14,936' in 28 holes.<br>**1982**: dd by Gibraltar Mines. | Ind: 950,000 at 0.280% Cu in two zones ***1971***<br>(E P Sheppard 10/03/71 ***in*** VSE SMF 17/01/72, Gunn ML) |  |
| B.C. 209 | SMITH–NASH<br>Consolidated Silver Standard ML,<br>Fleck Res L<br>93 E/5<br>53°29' 127°49' | Qtz vein containing py and Au in a shear zone in granite gneiss. Vein varies in width from 4'–15'. | **1952–53**: dev work and sampling.<br>**1960**: Silver Standard ML option – limited surface work.<br>**1986**: optioned, sampling, dd.<br>**1988**: dd. | Geological: 22,190 at 0.301 oz/t Au.<br>(Cons Silver Standard Ms L, 1988 AR) |  |
| B.C. 210 | HARRISON<br>Golden Knight Res Inc<br>93 E/6<br>53°21'45" 127°17'20" | Au and Ag values in qtz veins in pre–Lower Jurassic diorite and associated metavolcanic rocks which are in contact (thrust fault) with Lower Cretaceous black argillite, siltstone and sandstone. Coast Intrusion granodiorite stocks and dykes cut the host rocks. | **1944–46**: trenching, dd.<br>**1952–55**: adit driven and dd.<br>**1967**: trenching, sampling.<br>**1989**: geochem survey, dd. | Ind: 165,000 at 0.27 oz/t Au, 7.32 oz/t Ag ***and*** 88,000 at 0.407 oz/t Au, 12.25 oz/t Ag ***c 1955***<br>(NM 18/08/66)<br>***or*** 249 425 mt at 10.7 g/t Au, 274.2 g/t Ag.<br>(CIM Spec Vol 37, p 186, 1983) | In Main vein.<br>In Contact zone vein. Located in Tweedsmuir Provincial Park. |
| B.C. 211 | HARRISON SCHEELITE<br>93 E/6<br>53°21'45" 127°17'45" | Scheelite in stockwork of qtz stringers in Lower Cretaceous Skeena Gp argillite and as disseminations in Coast Plutonic Complex diorite in contact zone. | **1952**: trenching, sampling of scheelite–bearing talus.<br>**1967**: trenching, sampling. | 21,100 T/VF at 0.35% $WO_3$ ***1954***<br>(P E Young 12/03/54 ***in*** Prospectus 21/04/54, Deer Horn ML) | Loose material in talus slide. In Tweedsmuir Provincial Park. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 212 | RED BIRD (CAFB)<br>Phelps Dodge Corp of Can L<br>93 E/6<br>53°17'50" 127°00'20" | Mo and py in a stockwork of qtz veinlets within peripheral concentric alteration zones within an Eocene age qtz–monzonite porphyry stock intruding Middle Jurassic pyroclastic rocks. K–spar alteration, silicification and sericite and kaolinite alteration are all present in this porphyry moly deposit. | **1962–68**: mag and IP surveys, 57,865' dd in 75 holes.<br>**1977**: Craigmont ML, dd.<br>**1979–80**: dd.<br>**1981**: feasibility study.<br>**1982**: Craigmont dropped option. | Ind: about 37,000,000 at 0.18% $MoS_2$, at 0.10% cut–off, available by o/p ***plus*** 33,000,000 at 0.16% $MoS_2$ available u/g ***1980***<br>(Craigmont ML, 1980 AR) | Access would be through a Provincial Park. |
| B.C. 213 | EMERALD–GLACIER<br>93 E/11<br>53°44'00" 127°15'30" | Gal, sph, cp and py in shear zone associated with en échelon quartz veining in transition zone between Jurassic intercalated sandstone–siltstone–shale and andesitic–dacitic breccias and tuffs. Qtz veins are up to 3m wide and veining appears as stockwork, massive, banded and brecciated. | **1917–19**: adit driven.<br>**1928–31**: u/g work in two new adits, dd.<br>**1951–52**: u/g dev, dd, ore shipped.<br>**1966–68**: 75 t/d mill operated intermittently, 4th adit driven.<br>**1971–73**: surface and u/g expl. | 40 800 mt at 1.13 g/mt Au, 355 g/mt Ag, 6.23% Pb, 9.49% Zn<br>(CIM Spec Vol 37, p 186, 1983) |  |
| B.C. 214 | HUCKLEBERRY<br>Kennco Expls (Canada) L<br>93 E/11<br>53°40'50" 127°10'20" | Porphyry deposit. Cp and minor Mo in fractures in hornfelsed Jurassic age Hazeltop Gp tuffs at contact with Upper Cretaceous age granodiorite porphyry stock. | **1963–73**: mag, IP and geochem soil and silt surveys, dd, preliminary feasibility study. | Mineable reserves: 77 700 000 mt at 0.401% Cu, 0.025% $MoS_2$ ***or*** geologic reserve: 87 000 000 mt at 0.408% Cu, 0.025% $MoS_2$ (0.30% Cu cut–off), to 220 m ***1973***<br>(CIM, Spec Vol 15, p 284, 1976) | Waste–ore ratio of 1.17:1 based on a cut–off grade of 0.25% Cu. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 215 | OX–C<br>International Damascus Res L<br>93 E/11<br>53°38'45" 127°03'10" | Asp, gal, sph, boulangerite, tetrahedrite and argentite in veinlets as disseminations and in breccia zones associated with a shear zone in Jurassic age Whitesail Fm felsic volcanic rocks. | **1981–84**: geoph and geochem surveys, trenching, dd.<br>**1986**: geoph survey, tr.<br>**1988**: Granges Expl, option. | Drill ind: 20 735 mt at 12.0 oz/t Ag, 0.014 oz/t Au, 2.85% Pb, 4.63% Zn ***1985***<br>inf: 196 087 mt at about same grade (VSE SMF 24/01/86, International Damascus Res) | In Main (Damascus) zone. To depth of 20 m.<br>To depth of 100 m. |
| B.C. 216 | OX LAKE<br>Cons Silver Standard ML and Asarco Inc,<br>93 E/11<br>53°40'30" 127°03'20" | Porph Cu–Mo deposit in sequence of Jurassic felsic tuff, andesitic tuff, sandstone and siltstone intruded by a 400m x 600m granodiorite porphyry plug of Upper Cretaceous age. Cu & Mo mineralization associated with intense stockwork of veins in the hornfelsed and pyritized halo in volcanic tuffs marginal to granodiorite. Minerals are py, cp, born, hem, mag, po and mo. | **1968–69**: geoph and geochem surveys, 15,837' dd in 35 holes.<br>**1977**: geoph survey.<br>**1981**: dd.<br>**1985**: prospecting.<br>**1986**: geochem survey. | Geological: 19,000,000 at 0.33% Cu, 0.06% $MoS_2$ with minor Au–Ag values (VSE Offering of Rights, 17/07/85, Cons Silver Standard ML) | O/p. |
| B.C. 217 | NANIKA (DW)<br>93 E/13<br>53°46' 127°42' | Cp, py and bornite in Jurassic dacite porphyry at fault contact with granitic rocks of Coast Plutonic Complex. | **1968**: geochem survey, dd.<br>**1972–74**: IP survey, dd. | Inf: 18,144,000 at 0.437% Cu ***1973*** (GCNL 30/10/73) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 218 | BERG<br>Kennco Expls (Canada) L<br>93 E/14<br>53°48'10" 127°25'50" | Cp, mo, py, minor sph, gal, and asp occurring mainly as a fine–textured stockwork of qtz–filled veinlets distributed in a broad assymetrical annulus zone around a semi-circular Eocene plug of qtz–monzonite porphyry stock and in its peripheral hornfels and diorite. Extensive oxidation, leaching and secondary enrichment. Host rock: Hazelton Gp volcs. | **1962–67**: geochem and mag surveys, trenching, 27,088' dd in 43 holes.<br>**1972–74**: Canex Placer L option – dd and metallurgical testing.<br>**1980**: geoph and geochem surveys, dd. | 238 000 000 mt at 0.39% Cu, 0.05% $MoS_2$, 2.84 g/t Ag<br>(CIM Spec Vol 37, p 1986, 1983). |  |
| B.C. 219 | WHIT<br>Kennco Expls (Canada) L<br>93 E/14<br>53°45'30" 127°12'12" | Py, cp, mo dissem in a qtz monzonite stock. | **1964–65, 1972**: geoph, dd, geochem.<br>**1980–81**: geoph, geochem, dd mainly on Ridge zone. | Ind: 123 500 000 mt at 0.043% $MoS_2$, 0.062% Cu<br>(BC Bull 75, p 57) | In Ridge zone. |
| B.C. 220 | CAPOOSE LAKE<br>Granges Expl L<br>93 F/6<br>53°17'00" 125°09'30" | Ag and Au values occur with gal, py, po, cp, asp and sph as dis, replacement of garnet, and fracture fillings in Jurassic volcanics of the Hazelton Group, in structurally controlled zones. | **1976–81**: geoph and geochem surveys, dd.<br>**1984**: dd. | Dd ind: 31,200,000 at 1.05 oz/t Ag, 0.009 oz/t Au.<br>(Granges Expl L, Form 10–K, 31/12/87) |  |
| B.C. 221 | AHBAU CREEK<br>Gabriel Res Inc<br>93 G/1<br>53°11'50" 122°21'30" | Upper Triassic Takla Group volcanics are intruded by a Cretaceous granitic body and a Triassic (?) monzonite stock. Au–Ag values with minor Cu and Zn occur in a major shear zone. | **1968–72**: geochem and geoph surveys, tr, dd and percussion drilling.<br>**1986–88**: geochem and geoph surveys, tr, dd. | Ind: 50,000 at 0.3 oz/t Au ***1986***<br>(Gabriel Res Inc, AR, 14/04/88) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 222 | CARIBOO<br>Mosquito Consolidated GML,<br>Pan Orvana Res Inc<br>93 H/4<br>53°05'20" 121°33'35" | Synmetamorphic pyritic Au replacements conformable with folded contacts between marble and talc dolomite schist in Lower Cambrian Downey Creek succession, cut by two sets of post–tectonic quartz–Au veins of Late Mesozoic age. | **1880s**: adits, shafts and small qtz mill operations.<br>**1927–69**: Cariboo Gold Qtz Mng CL – extensive u/g work totalling more than 25 mi; mill operated.<br>**1981**: dd.<br>**1989**: tr, dd. | 117,010 no grade stated ***1973***<br>(NM 16/08/73)<br>***or*** combined Cariboo and Aurum total c 360,000 at 0.12 oz/t Au ***1981***<br>(VSE FS 24/86, Mosquito Creek GMCL)<br>***and*** prob: 435,220 at 0.144 oz/t Au<br>(GCNL 01/09/85) | U/g material in old Cariboo and Island Mountain (Aurum) mines.<br>O/p material in Sanders zone which is the surface expression of one of five zones mined u/g in the Cariboo Gold Quartz mine. |
| B.C. 223 | ISLAND MTN (AURUM)<br>Mosquito Consolidated GML,<br>Pan Orvana Res Inc<br>93 H/4<br>53°05'57" 121°34'45" | Synmetamorphic pyritic Au replacements conformable with folded contacts between marble and talc dolomite schist in Lower Cambrian Downey Creek succession, cut by two sets of post–tectonic quartz–Au veins of Late Mesozoic age. | **1870s–97**: about 1,000' u/g work, small milling operations.<br>**1933–54**: Island Mtn MCL, more than 20 mi u/g work on 11 levels from shaft. Mill operated from Nov 1934.<br>**1954–67**: sold to Cariboo Gold Qtz Mng CL and ore hauled some 700 yds to Cariboo mill. Closed March 1967.<br>**1980–81**: drilling.<br>**1986**: Hecla Mng Co optioned; u/g expl on adjacent property; option dropped.<br>**1988**: over 1 560 m of u/g exploration, percussion and dd. | Combined Cariboo and Aurum: 138,000 at 0.33 oz/t Au (of which 117,000 in Cariboo mine) ***1973***<br>(NM 16/08/73)<br>***or*** c 360,000 at 0.12 oz/t Au ***1981***<br>(VSE FS 24/86, Mosquito Creek GMCL) | Produced more than 500,000 oz Au and 80,000 oz Ag from more than 1 million tons ore in 1934–67. Present company owns a mill located on an adjacent property. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 224 | SNOWBIRD<br>X–Cal Resources L<br>93 K/8<br>54°27′ 124°30′ | Stibnite, py and gold values in a set of parallel qtz veins in a 6 m to 20 m wide alteration zone in Cache Creek Group sedimentary rocks. | **1938–40**: shaft and adit; high–grade antimony ore shipped.<br>**1963**: geoph survey.<br>**1970–71, 74**: geochem and geoph surveys, dd.<br>**1986–88**: geoph surveys, percussion and dd.<br>**1989**: tr, dd. | 5,000 at 0.2 oz/t Au, 3% Sb<br>(X–Cal Res, News Release, 9/10/86)<br>Poss: c 250,000 at 0.20 oz/t Au<br>(NM 27/03/89) | In Snowbird zone.<br>In North Zone. |
| B.C. 225 | PINCHI LAKE<br>Cominco L<br>93 K/9<br>54°37′55″ 124°26′00″ | Cinnabar as replacement lodes and breccia fillings in brecciated dolomitized Cache Creek Gp limestone and qtz–carb mica schists in Pinchi fault zone. | **1938–44**: dd, u/g dev. Mill operated 1940–44.<br>**1965**: geochem survey.<br>**1967–75**: new main haulage decline driven 1,318′, o/p developed; new 800 t/d concentrator operated Aug 68 to July 75. | Meas and ind:<br>1,200,000 at 6.4 lbs Hg/t<br>***1975***<br>(Cominco L, 1982 AR) | Equivalent to 98,000 flasks at 76 lbs Hg/flask. |
| B.C. 226 | NADINA (SILVER QUEEN)<br>Pacific Houston Res. Inc.<br>93 L/2<br>54°05′15″ 126°43′35″ | Altered fragmental volcanics intruded by porphyritic diorite, all cut by later dykes and sills of felsite. Veins contain sph, gal and cp in a gangue of qtz, rhodochrosite, chalcedony and barite. | **1928–30**: u/g dev in crosscut adit and drifts.<br>**1967**: IP and geochem surveys, dd.<br>**1968–70**: u/g work on two levels, dd.<br>**1971–74**: u/g dev, dd, 500 t/d mill operated Feb 72–Sept 73, treating 210,000 tons.<br>**1977**: dd.<br>**1980–85**: geoph surveys, tr, dd, metallurgical studies.<br>**1987-88**: decline, drifts and crosscuts (4,400′), surface and u/g dd; rehabilitation of 2,600′ level. | Prov, prob, poss:<br>1,903,000 at 0.08 oz/t Au, 9.56 oz/t Ag, 6.19% Zn<br>(Houston Metals Corp, 1988 AR) | Biochemical leaching of sulphide concentrate appears feasible. Metallurgical tests indicate that indium and germanium values would appear in the zinc concentrate. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 227 | POPLAR<br>BHP–Utah Ms L<br>93 L/2<br>54°00'40"   126°59'10" | Cp and py in fractures in a Late Cretaceous biotite monzonite porphyry stock. Mo occurs mainly in veins with qtz and gypsum, hosted by Hazelton Gp volcaniclastic and epiclastic rocks. | **1971–72**: geochem survey, tr.<br>**1975–77**: geoph and geochem surveys, dd.<br>**1979–81**: dd. | 75 000 000 mt at 0.35% Cu, 0.1% $MoS_2$, 2.8 g/t Ag<br>(CIM Spec Vol 37, p 185, 1983) |  |
| B.C. 228 | LUCKY SHIP<br>Canamax Res Inc<br>93 L/3<br>54°01'28"   127°28'40" | Mo in a stockwork of fractures and qtz veins concentrated mainly at the contact of two phases of an Eocene qtz porphyry plug, hosted by Jurassic sediments of Hazelton Gp. | **1963–68**: geochem, mag and IP surveys, 39,973' dd. | Geological: 20,000,000 at 0.16% $MoS_2$<br>(VSE LS 2956, Canamax Res Inc, July 1983) | Mineable by o/p. |
| B.C. 229 | RICHFIELD<br>Mountain–West Res Inc<br>93 L/9<br>54°35'27"   126°15'30" | Qtz sulphide veins and vein-like replacement deposits, in a sheared and intensely altered zone in Jurassic volcanics, contain py, cp, gal, sph, asp, and tetrahedrite. | **1926–29**: about 5,000' u/g dev in shaft and drifts on two levels.<br>**1934**: shallow shaft and drifting.<br>**1951–52**: trenching, sampling.<br>**1955–58**: drilling, samoling.<br>**1967**: geoph surveys, drilling.<br>**1975**: geoph and geochem surveys, drilling.<br>**1979**: geoph and geochem surveys, trenching.<br>**1980–83**: dd, geoph surveys. | Dd ind: 200,000 at 0.124 oz/t Au, 5.6 oz/tAg<br>(CMH, 1989–90, p 327) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 230 | COPPER CROWN<br>Ramm Venture Corp, Teck Corp<br>93 L/10<br>54°33'30" 126°43'42" | Hazelton volcanics cut by dykes of various compositions. Qtz, py, cp and sph in veinlets, subparallel lenses and joint fillings alternating with screens of country rock over a maximum width of 50'. | **1914–20**: u/g work in shaft and several adits.<br>**1926–27**: u/g work.<br>**1951–52**: dd.<br>**1964–65**: IP and EM surveys.<br>**1977**: geochem survey.<br>**1983–84**: geoph and geochem surveys, dd.<br>**1988**: dd. | ***(i) Ruby zone***: c 350,000 at 0.38% Cu, 4.23% Zn, 0.88 oz/t Ag<br>***or*** prob: 500,000 at 0.32% Cu, 4.35% Zn, 0.75 oz/t Ag<br>(NM 17/11/86, p 13)<br>***(ii) Copper Crown zone***: 720,000 at 0.42% Cu, 0.3% Zn, 0.4 oz/t Ag<br>(NM 29/03/84) | |
| B.C. 231 | DOME MOUNTAIN<br>Teeshin Res L, Canadian United Mnrls Inc<br>93 L/10,15<br>54°44'25" 126°37'00" | Hazelton Gp volcanics are host to stratabound Au–Ag values assoc with qtz, sph and cp. Qtz veins locally carry similar mineralization of higher grade. | **1915–24**: intermittent expl in adits and shafts.<br>**1973**: geoph and geochem surveys.<br>**1984-85**: geoph and geochem surveys, tr, dd.<br>**1986-87**: u/g exploration on the Boulder Creek vein, dd.<br>**1988**: dd and feasibility study. | Diluted prob mineable: 300,000 tons at 0.355 oz/t Au, 2.35 oz/t Ag<br>(Teeshin Res L, 1988 AR) | |
| B.C. 232 | SERB CREEK<br>T L Sadlier Brown & Exaton Res L (in 1975)<br>93 L/12<br>54°38'45" 127°45'15" | Low–grade mo widely distributed in fractures and qtz vein stockwork in qtz monzonite core of an Eocene granodiorite stock, hosted by Hazelton Gp volcanics. | **1964–66**: mag, IP and geochem surveys, 21,500' dd in 19 holes.<br>**1975**: dd 1 000 m in 3 holes. | 41 150 000 mt at 0.08% $MoS_2$<br>(BC Prel map 65, 1988) | |
| B.C. 233 | GLACIER GULCH<br>Canamax Res Inc<br>93 L/14<br>54°48'50" 127°18'00" | Mo in stockwork and qtz vein swarms in granodiorite sheet and adjacent volcanic rocks and in rhyolite porphyry plug. Minor disseminated mo in qtz monzonite stock beneath the rhyolite plug. Scheelite present. | **1958–65**. surface dd in 41 holes.<br>**1966–68**: adit to 6,200', 3,000' crosscuts, u/g dd in 33 holes.<br>**1970–73**: u/g work, dd, bulk sampling.<br>**1977–80**: dd. | Approx 100,000,000 at 0.29% $MoS_2$ ***c 1968***<br>(BCI 93 L–110)<br>***including*** 20 000 000 mt at 0.3 to 0.4% $MoS_2$, 0.039% $WO_3$<br>(CIM Bull, Sept 83, p 50)<br>***or*** 30 000 000 mt at 0.26% $MoS_2$, 0.06% $WO_3$<br>(BC Prel map 65, 1986) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 234 | MAMIE<br>Consolidated Silver Standard ML<br>93 L/14<br>54°46'55" 127°21'00" | Sph, asp and cp in a shear zone in Jurassic volcanics. | **1911–17**: trenching, minor u/g work.<br>**1919–24**: several adits driven.<br>**1950–51**: u/g work.<br>**1963**: EM survey, dd.<br>**1985**: metallurgical tests, dd.<br>**1987–88**: u/g and surface sampling, metallurgical tests on u/g bulk sample. | Prov: 61,000 at 0.32 oz/t Au, 3.0 oz/t Ag, 7.0% Zn, 0.7% Cu *c 1951*<br>(VSE Offering of Rights, 17/07/85, Cons SS ML)<br>*or* Geological: 61,000 at 0.28 oz/t Au, 1.5 oz/t Ag, 5% Zn<br>(Cons SS ML, 1987 AR) | Low Au recoveries have hindered development. Metallurgical tests to **1988** indicate an economic concentrate is not attainable using conventional flotation or cyanidation methods. |
| B.C. 235 | SEYMOUR<br>Stellar Res Corp<br>93 L/14<br>54°45'00" 127°10'30" | Bornite and cp in small veinlets in a fault zone in Jurassic volcanics. | **1925–26**: trenching.<br>**1963**: geoph and geochem surveys.<br>**1966–69**: geoph and geochem surveys, dd.<br>**1984**: geochem survey. | Approx 80,000 at unstated Cu–Ag grade *1969*<br>(NM 26/02/70) | "Probable ore grade material". |
| B.C. 236 | BIG ONION<br>Falconbridge L<br>93 L/15<br>54°48'35" 126°53'40" | Cp, mo, bornite in Eocene qtz diorite along sheared contact with andesite, hosted by Jurassic volcs and seds of Hazelton Gp. | **Pre–1924**: 2 adits.<br>**1963–67**: geochem and geoph surveys, dd.<br>**1970**: IP, mag, EM, resistivity and geochem surveys.<br>**1974–77**: mag and geochem surveys, dd. | 18 000 000 mt at 0.36% Cu *1976*<br>(CIM Spec Vol 15, Table 1, showing No 73, 1976)<br>*or* 90 000 000 mt at 0.3% Cu<br>(BC Prel map 65, 1986) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 237 | CRONIN<br>Hallmark Res L<br>93 L/15<br>54°55'30" 126°48'50" | Sph, gal, py and tetrahedrite in veins in a stock-like body of rhyolite and at its contact with surrounding argillites. | **1906–10**: about 400' u/g work.<br>**1914–23**: dev in 5 adit levels.<br>**1928–31**: u/g work.<br>**1948**: dd.<br>**1951–52**: 40 t/d mill operated part time.<br>**1956–57**: mill operated part time.<br>**1962–72**: intermittent small scale activity by a number of operators.<br>**1972–75**: geochem survey, u/g dev, dd, milling for 3 months in 1974.<br>**1977–78**: u/g work.<br>**1981**: mill placed in storage.<br>**1987–88**: geoph surveys, dd. | Ind: 46,752 at c 0.01 oz/t Au, 12.5 oz/t Ag, 7.11% Pb, 8.12% Zn, 0.1% Cd ***plus*** inf: 130,000 at same grade ***1972*** (VSE SMF 06/05/74, Hallmark Res L)<br>***plus*** Ind: 20,000 + at 12.5 oz/t Ag, 7% Pb, 8% Zn ***1977*** (NM 29/12/77) | Subject to dilution of up to 20%. Treated 2,000 tons of Pb–Zn–Ag–Cu ore since 1972.<br>Outlined by u/g work on No 1 level in 1977. May be a portion of former inferred tonnage. |
| B.C. 238 | GRANISLE<br>Noranda Mines L<br>93L/16<br>54°56'40" 126°09'20" | Cp, bornite, py, with Au-Ag values, and local mo in qtz filled fractures in Eocene biotite feldspar porphyry plugs and intermineral dykes, hosted by Hazelton Gp volcs and seds. | **1909**: two adits.<br>**1929**: dd.<br>**1946**: dd.<br>**1956-65**: dd.<br>**1967-82**: Production from o/p. | 15,614,000 at 0.442% Cu. (Noranda Mines, L, 1984 AR) | Some 13 million tons were deleted from reserves in 1980-81, in part due to a high strip ratio. The 14 000 TPD mill and equipment were put up for sale in 1989. |
| B.C. 239 | DOROTHY<br>Ducanex Res L<br>(in 1974)<br>93 M/1<br>55°14'40" 126°10'10" | Cp and minor mo disseminated and in stringers in a qtz diorite to granodiorite porphyry plug at the contact between a dioritic stock and Jurassic volcanics and sediments. | **1965–66**: geoph and geochem surveys.<br>**1970–71**: IP, mag, EM and geochem surveys, dd.<br>**1974**: geochem survey. | Inf: 45,000,000 at 0.25% Cu, 0.01% Mo to 160 m ***1971*** (CIM, Spec Vol 15, Table 1, No 93, 1976) |  |
| B.C. 240 | FIREWEED<br>Canadian-United Mnrls,<br>Gunnar Gold Mng Corp<br>93M/1,2<br>55°02' 126°30' | Ag values with sph, gal, and cp as dissem, in breccia, and as massive sulphide. | **1987-88**: geoph and geochem surveys, dd. | Dd ind: 640,000 at 9.97 oz/t Ag, 2.22% Zn, 1.34% Pb (Canadian-United, Gunnar, joint News Release 05/04/89) | Near south edge of Babine Lake, some 50 Km northeast of Smithers.<br>Reserves in West Zone. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 241 | MORRISON<br>Noranda Inc<br>93 M/1<br>55°11'25" 126°19'00" | A plug of biotite–hornblende–plagioclase porphyry intrudes Jurassic sediments and is displaced by a fault. Cp and py in a stockwork of veinlets and fractures and disseminated in the porphyry and peripheral sediments. | **1962–73**: geochem and geoph surveys, trenching, dd. | 38 000 000 mt at 0.42% Cu, 0.34 g/mt Au, 3.4 g/mt Ag<br>(BC Prel map 65, 1986) |  |
| B.C. 242 | TETRA<br>Consolidated Silver Standard ML<br>93 M/3<br>55°01'55" 127°15'50" | Sph, gal, py, tetrahedrite and asp in a braided shear–like vein in sedimentary rocks of volcanic derivation. | **1968–69**: geochem survey, dd and 2 adits driven.<br>**1980**: 50 t/d mill installed.<br>**1981**: test milling. | 20 000 mt at 4.4% Pb, 2.2% Zn, 1.19 g/mt Au, 2 948.4 g/mt Ag<br>(CIM Spec Vol 37, p 185, 1983)<br>*or* geological: 22,600 at 19 oz/t Ag<br>(Cons Silver Standard, 1987 AR) | From 275 tons mined in 1975–76, 12 oz Au, 22,440 oz Ag, 21,510 lbs Pb and 13,756 lbs Zn were recovered (CIM Spec Vol 37, p 185) |
| B.C. 243 | RED ROSE<br>Freeport Res Inc<br>93 M/4<br>55°08'20" 127°36'00" | Qtz vein in small shear cutting diorite dyke and hornfels near contact with granodiorite of Cretaceous Rocher Deboule stock. Sections of qtz vein within the mine diorite contain scheelite, ferberite, cp, mo and uraninite. | **1940–54**: dd, mng on 12 levels and sublevels.<br>**1987**: dd. | Prob: 15,000 tons of average grade ***1960***<br>(BC Bull 43, p 59, 1960)<br>*or* 20 000 mt at 5% $WO_3$<br>(BC Prel map 65, 1986) | Above the 1,100' level. Grades estimated at 1.5% $WO_3$, 0.3% Cu. |
| B.C. 244 | ROCHER DEBOULE<br>Southern Gold Res L<br>Canamin Res L<br>93 M/4<br>55°09'35" 127°38'20" | Cp, mag, po, py, scheelite, cobaltite, asp, mo, and tetrahedirite in hornblende and qtz veins in porphyritic granodiorite of the Cretaceous Rocher Deboule stock. | **1911–18**: more than 2 mi of crosscuts and drifts on 5 levels from 3 crosscut adits.<br>**1950–52**: mng on No 2 level. Mill operated in 1952.<br>**1979**: u/g work.<br>**1982**: geol mapping.<br>**1987–88**: geoph survey, u/g rehabilitation, drifting, dd. | 180 000 mt at 11.34 g/mt Au, 141.75 g/mt Ag, 4% Cu, 4% Co<br>(CIM Spec Vol 37, p 186, 1983) | The property produced 4,500 oz Au, 84,500 oz Ag and 3,000 tons Cu from 52,000 tons treated between 1915 and 1952. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 245 | VICTORIA<br>D Groot Logging (in 1982)<br>93M/4<br>55°10'20" 127°39' | Au, Co, Ni, U, Mo in a predominantly hornblende gangue in replacement zones within granodiorite and in a hornfelsed sediment contact zone. | **1916-18**: u/g dev in two adits; ore shipped.<br>**1925-28**: new adit; ore shipped.<br>**1940-41**: Lessee mined ore remnants.<br>**1949-50**: u/g dev.<br>**1975**: u/g sampling.<br>**1982-83**: dd. | 1 000 mt at 42.55 g/mt Au, 2.84 g/mt Ag, 2% Co (CIM Spec Vol 37, p 186, 1983) | |
| B.C. 246 | UTE<br>Silverado Ms L<br>93 M/7<br>55°20' 126°48' | Shear zones in Hazelton volcanics contain massive gal, cp, tetrahedrite, py over widths from less than 2 cm up to 1 m. | **1956**: tr, dd.<br>**1974-76**: geoph and geochem surveys, tr, dd.<br>**1981**: geoph and geochem surveys.<br>**1985**: dd. | 2 630 mt at 5% Cu, 14% Pb, 2.4 g/mt Au, 411 g/mt Ag (CIM Spec Vol 37, p 185, 1983) | Hand sorted ore shipments in 1964, 65, 74 totalled 52 tons, yielding 4 ozs Au, 10,700 ozs Ag, 16,000 lbs Pb, 1,100 lbs Zn, 2,700 lbs Cu. |
| B.C. 247 | MOUNT THOMLINSON (MOLLY)<br>Amax of Can L<br>93 M/11<br>55°35'20" 127°29'15" | Mo, cp and py in a stockwork of qtz veinlets at the NW contact of an Eocene porphyritic granite stock with Jurassic argillaceous sediments. The mineralization is mainly in the porphyry. | **1964–65**: geochem survey and dd.<br>**1975**: geol mapping. | Meas, ind and inf: 40 820 000 mt at 0.12% $MoS_2$ *c* ***1965*** (CIM Spec Vol 15, Table 3, p 422, 1976) | |
| B.C. 248 | MT MILLIGAN<br>Continental Gold Corp<br>BP Res Canada L<br>93N/1<br>55°07'30" 124°01'40" | Upper Triassic Takla Group volcanics are intruded by diorite/monzonite porphyry dykes and plutons. Altered volcanics adjacent to the intrusives are host to porphyry–type disseminated and veinlet Au-bearing py and cp, bn and mag. | **1984–86**: geochem and geoph surveys, tr.<br>**1987–88**: dd 8 000 m in 70 holes.<br>**1989**: dd (170,000' by Sept). | 100,000,000 at 0.3% Cu, 0.025 oz/t Au (NM 22/05/89) ***or*** 150–200 Mt ind at 0.3% Cu, 0.02 oz/t Au (Continental Gold Corp, News Release 22/08/89) | Five drills working in Oct. '89. New zone, SW of main 3 zones, defined. |
| B.C. 249 | WIT, WAG<br>Nation River Res L<br>93 N/1<br>55°12'54" 124°27'00" | Pb–Zn in volcanics adjacent to qtz–carb replacement zone. | **1964–65**: trenching, geoph and geochem surveys, dd.<br>**1967–69**: mag, gravity, EM, IP and geochem surveys, dd.<br>**1981**: geochem survey.<br>**1988**: restaked. | 20,000 at 7.5% Pb–Zn ***1965*** (B P Sawyer 26/01/79 ***in*** Prospectus 05/05/81, Marilyn GM Inc) | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 250 | COL<br>Kookaburra Gold Corp<br>93N/2<br>55°14'45" 124°45'15" | Py, cp, bornite and Au values in fractures and dissem in monzonite and syenite phases of the Hogem batholith. | **1969–72**: geochem and geoph surveys, tr, dd.<br>**1984**: drill core resampling for Au.<br>**1988**: geochem survey. | dd–ind: 2,000,000 at 0.6% Cu ***1973***<br>(D M Jenkins, 30/05/88 in Kookaburra Gold Inc Prospectus, 27/01/89) | – In Zone "A". "The Cu grade is only approximate due to flawed data". |
| B.C. 251 | LONNIE<br>93 N/9<br>55°41' 124°22' | Columbite, ilmenite, ilmeno–rutile, zircon in syenite. | **c 1954**: discovery.<br>**1954–55, 1970**: tr, str, sampling.<br>**1979–81**: dd. | Ind poss: 300,000 at 0.204% $Nb_2O_5$, 0.448% $ZrSiO_4$<br>(GCNL No 131, July 9, 1982) | |
| B.C. 252 | KWANIKA<br>W Halleran<br>93 N/11<br>55°30'30" 125°20'00" | Py, cp, mo in fracture zones in Lower Cretaceous granitic intrusives cutting Takla Group volcanics and Lower Jurassic monzonite along border of Pinchi fault zone. | **1965–67**: trenching, dd, geochem and geoph surveys.<br>**1969–70**: IP survey, dd.<br>**1972–74**: IP and mag surveys, dd.<br>**1988**: Grab samples analyzed for Au. | 36 000 000 mt at 0.2% Cu ***1974***<br>(CIM Spec Vol 15, Table 1, No 97, 1976) | None of the samples from the 1960s and 70s drilling were analyzed for Au.<br>Eastfield Resources Ltd. optioned in 1989. |
| B.C. 253 | LUSTDUST<br>Pioneer Metals Corp<br>93 N/11<br>55°34'00" 125°24'45" | Sph, ruby silver, stibnite boulangerite in a vein–like replacement zone along a shear and as a replacement in Cache Ck limestone at a contact with schistose pyroclastic rocks. | **1945**: adit to 350'.<br>**1953–54**: trenching, dd.<br>**1964–65**: new adit to 750', dd.<br>**1968**: dd.<br>**1969**: metallurgical testing.<br>**1978**: Granby Mng geoph and geochem surveys on adjacent ground.<br>**1979–80**: geoph survey, dd. | ***(i) No 1 zone***: 22,000, grade unstated ***1966***<br>(FR 11/07/66)<br>***(ii) No 3 zone***: 257,000 ind at 0.07 oz/t Au, 1.84 oz/t Ag, 1.5% Zn before dilution ***1968***<br>***(iii) No 4 zone***: 81,700 ind at 0.095 oz/t Au, 0.81 oz/t Ag, 6.6% Zn ***1968***<br>(NM 12/02/70) | No 1 zone on surface averages 0.13 oz/t Au, 23.4 oz/t Ag over 7' width, 225' length. |
| B.C. 254 | TAKLA RAINBOW<br>Cathedral Gold Corp<br>93 N/11<br>55°39' 125°17' | Au-Ag values in sulphide-quartz-magnetite zones in volcanics at the edge of the Hogem batholith. | **1953–54**: geochem and geoph surveys, tr, dd. | Prov, prob, geological: 321,000 at 0.25 oz/t Au<br>(Cathedral Gold Corp, 1988 AR) | |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 255 | MISTY<br>Sohio Expl Corp<br>(in 1982)<br>93 N/13<br>55°55′20″ 125°31′30″ | Cp, bornite and minor py as fracture coatings and disseminations in fault zone in gneissic phase of altered syenite of Duckling Creek complex. The syenite is an elongate body within Hogem batholith. | **1961–63**: geoph and geochem surveys, trenching.<br>**1970–73**: mag and geochem soil surveys, dd. | Poss: 3 000 000 mt at 0.6% Cu ***1973***<br>(CIM Spec Vol 15, Table 1, No 95, 1976) | |
| B.C. 256 | LORRAINE<br>Kennco Expls<br>(Canada) L<br>93 N/14<br>55°55′35″ 125°26′15″ | Cp and bornite disseminated in syenite migmatite adjacent to a monzonite contact. Some sulphides in fractures and faults, in Duckling Creek complex of Hogem batholith. | **1948–49**: sampling, dd.<br>**1961–63**: geochem, mag and IP surveys, dd.<br>**1970–73**: geochem and mag surveys, dd. | Ind: approx 10 000 000 mt at 0.7% Cu, 0.10–0.34 ppm Au (0.4% Cu cut–off), in two zones ***1971***<br>(CIM Spec Vol 15, p 397, 1976) | |
| B.C. 257 | RONDAH<br>Treasure Valley Expls L<br>(in 1982)<br>93 N/14<br>55°54′40″ 125°17′05″ | Py and cp with minor bornite disseminated and in fractures within feldspathized monzonitic rocks of the Omineca Intrusions. | **1961–63**: geoph and geochem surveys.<br>**1970–72**: geoph and geochem surveys, trenching, dd.<br>**1981**: staking. | Meas geol: 9 072 000 mt at 0.7% Cu ***1971***<br>(BC RD, 1977) | |
| B.C. 258 | ROBB LAKE<br>MFC Mining Finance Corp,<br>Kidd Creek ML<br>94 B/13<br>56°56′30″ 123°43′40″ | Sph and gal in two stratabound levels of dolomitized limestone and collapse breccia of the Devonian Stone Fm. | **1972–75**: geochem and IP surveys, dd.<br>**1980–82**: dd. | Dd ind: 7,110,000 at 7.11% Zn–Pb<br>***or*** dd ind: 22,200,000 at 5.0% Zn–Pb<br>***1982***<br>(VSE Rights Offering, Cons Barrier Reef Res L, 29/11/84) | At 5.0% cut–off.<br>At 2.0% cut–off. Minimum mining thickness of 8 ft. |
| B.C. 259 | BEVELEY<br>Suzie Mng Expls L<br>(in1980)<br>94 C/3<br>56°08′50″ 125°04′00″ | Gal as veinlets and disseminations in barite masses in dolomite and as stockwork veinlets and fracture fillings in brecciated dolomite. Four main areas of mineralizations. | **1947–51**: trenching, dd.<br>**1966–69**: trenching, IP survey, dd, adit to 900′.<br>**1977–79**: EM, IP and gravity surveys, dd.<br>**1980**: dd. | ***(i)*** about 3,000,000 at approx 3.66% Pb–Zn, 1.06 oz/t Ag ***c 1969***<br>(NM 07/12/78)<br>***(ii)*** 110,000 dd–ind at 1.42% Pb, 2.24% Zn, 1.06 oz/t Ag ***1978***<br>(K C Fahrni 11/09/78 ***in*** VSE SMF 25/10/78, Suzie Mng Expls L) | In 3 zones.<br>In Bullseye zone; in addition to the above zones. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 260 | FERGUSON<br>Cominco L<br>94 C/11<br>56°41′20″ 125°10′00″ | Silicified Lower Cambrian limestone contains py, sph and gal in lens–like replacement zones, 2′ to 10′ thick. | **1927–30**: u/g work in 4 adits.<br>**1956–57**: geoph and geochem surveys, dd.<br>**1969–70**: geochem survey, dd. | 25,000 ***1969***<br>(VSE SMF 28/10/70, Dorita Silver ML) | Tonnage is reported at 3.5 oz/t Ag, 9.8% Pb, 6.1% Zn<br>(Dorita Silver ML, Rept and Balance Sheet 30/11/69). |
| B.C. 261 | RED<br>Windflower Mng L<br>94 D/3<br>56°13′ 127°08′ | Cp, bornite, chalcocite, as fracture fillings and dissem in reefoid ls within Hazelton volcanics. Low Ag values. | **1972–76**: geoph and geochem surveys, tr, dd.<br>**1984**: Selco Inc option, dd. | Outlined 5,500,000 at 0.50% Cu, 0.35 oz/t Ag ***1973***<br>(Windflower Mng L, Prospectus, 01/02/85) |  |
| B.C. 262 | CROY<br>Pacific Rim Mining Corp<br>94 D/8<br>56°28′ 126°02′ | Cp, py, po and magnetite in narrow veins in altered Takla Gp volcanics. | **1946**: tr.<br>**1970–72**: geoph and geochem surveys, dd.<br>**1988**: dd. | Dd–ind: 80,000 at 0.161 oz/t Au, 0.4 oz/t Ag, 3% Cu ***1972***<br>(VSE SMF, Beaver Res Inc 26/01/84) | In several zones. |
| B.C. 263 | KLISUM<br>Kennco Expls (Can) L<br>94 D/8, 9<br>56°30′00″ 126°06′25″ | Andesitic volcanics of the Takla Gp locally contain magnetite and cp with low Au–Ag values. | **1970–74**: geoph and geochem surveys, dd.<br>**1984–86**: geoph and geochem surveys. | Dd–ind: c 500,000 at 0.06 oz/t Au, 0.2 oz/t Ag, 0.46% Cu<br>(NM 20/09/84) |  |
| B.C. 264 | SUSTUT<br>Falconbridge L<br>94 D/10<br>56°36′00″ 126°40′30″ | Reasonably conformable, disseminated, zoned, py, cp, bornite, chalcocite and native Cu mineralization in intermediate fragmental volcanics of the Upper Triassic Takla Assemblage. Deposit is essentially stratigraphically controlled. | **1971–74**: prospecting, dd in 139 holes. | Ind: 60,000,000 at just under 1.25% Cu ***1972***<br>(NM 12/04/73) | Based on dd in 1972. |
| B.C. 265 | GERLE GOLD<br>Gerle Gold Ltd<br>94 D/16<br>56°52′30″ 126°27′ | Gold–bearing qtz lenses and veins in a 3 m to 7 m wide shear zone in Mesozoic metavolcanics. | **1947**: tr.<br>**1958**: dd.<br>**1981–85**: geoph and geochem surveys, dd.<br>**1987–88**: tr, dd. | Ind: 50,000 at 0.22 oz/t Au<br>(Gerle Gold L, Report to Shareholders, May 1987) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 266 | AL<br>Energex Mnrls L<br>94 E/6<br>57°28'40" 127°22'00" | Au–Ag values in barite–bearing and silica–hematite–bearing alteration zones in Middle Jurassic Toodoggone volcanics. | **1980–85**: geoph and geochem surveys, tr, dd.<br>**1986-88**: tr, dd, pilot mill tests, feasibility and heap leach studies. | Geological: 1,900,000 at 0.16 oz/t Au *incl* drill-prov mineable: 374,680 at 0.28 oz/t Au (uncut, undiluted at 0.102 oz/t Au cut-off)<br>(Energex Minerals 3rd Q Report 28/02/89) |  |
| B.C. 267 | CHAPELLE (BAKER)<br>Multinational Res Inc<br>94 E/6<br>57°16'20" 127°01'30" | Vuggy grey laminated qtz–argentite–acanthite–electrum–native Au–sph–cp veins controlled by faults within Takla Gp. andesite porphyry and dacite but locally at contact between Lower Jurassic Black Lake stock porphyry and Takla Group volcanics. | **1968–72**: geochem surveys, tr, dd.<br>**1973–76**: u/g expl and dev, dd.<br>**1981–83**: 120 tpd mill in operation.<br>**1985–88**: geochem and geoph surveys, dd. | 10,000 at 0.247 oz/t Au, 4.65 oz/t Ag.<br>50,000 at 0.57 oz/t Au, 5.16 oz/t Ag<br>(GCNL 04/11/88) | In A zone.<br>In B zone.<br>Produced 34,000 ozs Au, 673,000 ozs Ag from 85,000 tons milled in 1981-83. |
| B.C. 268 | GOLDEN STRANGER<br>Sutton Res L,<br>Redfern Res L<br>94E/6<br>57°22' 127°21' | Au bearing epithermal qtz – breccia zones in Middle Jurassic Toodoggone volcanics. | **1983**: geochem survey.<br>**1985**: geochem surveys.<br>**1987–88**: geochem and geoph surveys, dd. | Preliminary data indicated 550,000 at 0.08 oz/t Au<br>(Sutton Res L, Report to Shareholders, 30/03/89) |  |
| B.C. 269 | METS<br>Golden Rule Res L,<br>Manson Creek Res L<br>94E/6<br>57°26'15" 127°20' | Py and sparse free Au in a qtz –barite breccia vein system in Middle Jurassic Toodoggone felsic volcanics. | **1980–83**: geochem and geoph surveys, tr.<br>**1985–88**: geochem surveys, tr, dd. | Mineral inventory: 158,500 at 0.33 oz/t Au<br>(Golden Rule Res, 1987 AR) |  |
| B.C. 270 | SHAS<br>International Shasta Res L<br>94 E/7<br>57°15'10" 126°59'40" | Au–Ag bearing qtz vein stockworks with local cp and bornite in Middle Jurassic Toodoggone felsic pyroclastics. | **1973–75**: geoph and geochem surveys, tr.<br>**1983–84**: geoph and geochem surveys, tr, dd.<br>**1987–88**: geoph and geochem surveys, tr, dd. | 2,500,000 at 0.055 oz/t Au, 1.1 oz/t Ag (at 0.02 oz/t Au equivalent cut-off)<br>(GCNL 06/07/88) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 271 | CIRQUE<br>Curragh Res Corp<br>94 F/11<br>57°31' 125°09' | Stratiform massive barite with py, gal and sph in shale and argillite of Upper Devonian Gunsteel Fm. | **1978–80**: geochem survey and dd.<br>**1981–82**: access road completed; dd.<br>**1988–89**: metallurgical tests and feasibility study. | Dd–ind: 33,000,000 at 2.2% Pb, 7.8% Zn, 1.5 oz/t Ag ***1980***<br>geol reserve: 7,000,000 (Hudson's Bay Oil & Gas, 1980 AR) | Will require u/g mining. |
| B.C. 272 | DRIFTPILE CREEK<br>Placer Dome Inc<br>94 K/4<br>58°04'30" 125°54'00" | Stratiform gal, sph, py, and Ba occur in siliceous shales of the Upper Devonian Gunsteel Fm. | **1970–75**: geochem and geoph surveys, trenching.<br>**1978–80**: dd.<br>**1982**: dd. | Ind approx 20,000,000 at 2.38% combined lead–zinc ***1979***<br>(CMH 1980–81, p 280) | Gataga Joint Venture. |
| B.C. 273 | TORO (CHURCHILL)<br>J E Irwin (in 1977)<br>94 K/6<br>58°22'30" 125°12'00" | Cp as lenses and stringers in qtz–carbonate veins, in part adjacent to diabase dykes, cutting dolomite and slate of the Late Proterozoic Aida Fm. The best vein has average width of 8', though locally may be 30' wide. | **1966**: trenching, 692' dd in 5 holes. | Prob: 200,000 at 8% Cu ***1966***<br>(NM 21/07/66) | Much lower grade indicated by surface samples (avg 2.95% Cu across 8') and drill assays (4 intersections some 80' below surface avg 0.66% Cu across 13.5'). |
| B.C. 274 | DAVIS–KEAYS<br>Davis–Keays Mng L & Norsemont Mining Corp<br>94 K/11<br>58°33'15" 125°26'40" | Cp in qtz–carb vein swarm in folded belt of Late Proterozoic strata of the Aida Fm. Diabase dyke swarms are prevalent throughout the area. | **1968–69**: u/g work in 3 adits, dd.<br>**1970**: drifting, raises, dd, feasibility study.<br>**1971–72**: drifting, dd. | Semi–proven: 1,233,700 at 3.43% Cu, prob: 142,000 at 2.92% Cu and poss: 750,000, grade undetermined ***1971***<br>(Chapman, Wood and Griswold, June 1971 ***in*** VSE SMF 04/07/72, Davis Keays Mng CL) | Norsemont Mining Corp in 1989 obtained option to purchase. |
| B.C. 275 | MAGNUM<br>Teck Corp<br>94 K/11<br>58°30'35" 125°24'10" | Magnum vein system contains ankerite, qtz, cp, py and partly replaced remnants of Late Proterozoic sedimentary host rock of Aida Fm. | **1958–59**: trenching, dd.<br>**1967–71**: about 14,000' u/g work in several adits, dd. A 750 t/d mill operated 1970–71.<br>**1973–75**: u/g dev, milling at 500 t/d Jan 74–Apr 75.<br>**1981**: mill moved from property. | About 100,000 at 3% Cu at time of closure ***Apr 1975***<br>(NM 08/05/75) | Produced 15,500 tons Cu from 598,000 tons ore milled in 1970–75.<br>Norsemont Mining Corp in 1989 obtained option to purchase. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 276 | TOAD RIVER<br>Norsemont Mining Corp<br>94 K/12<br>58°32'30" 125°43'20" | Cp and qtz in a shear at both contacts of a diabase dyke cutting slate and argillite of the Aida Fm. | **1957**: trenching.<br>**1958–59**: trenching, dd. | Ind: 100,000 at 4.5% Cu to 200' ***1959***<br>(A D Wilmot 20/09/61 ***in*** Fort Reliance Mnrls L, Prospectus, 28/09/61) | Norsemont Mining Corp in 1989 obtained option to purchase. |
| B.C. 277 | TAM<br>Liard Fluorspar ML, Conwest Exploration CL<br>94 M/9<br>59°32' 126°05' | Fluorite in limestone and argillite breccias of the Mid-Devonian Stone and Dunedin and at contact with overlying Besa River Fms. | **1971**: trenching, dd, bulk sampling. | Geol res: c 2,600,000 at 30% $CaF_2$<br>(Conwest Expl CL, 1981 AR) | Based on 14 ddh in a number of relatively small deposits over a large area. |
| B.C. 278 | LILY<br>Falconbridge L<br>103 B/6<br>52°17'23" 131°10'53" | Cp and mag in 3 vein–like replacement bodies in bedded shear zones in Upper Triassic Karmutsen Fm greenstone, overlain by Jurassic to Triassic Kunga Gp. limestone. | **1898–1920**: u/g work in 4 adits. Dd, intermittent prod from 1906.<br>**1958**: geoph survey.<br>**1964**: dd.<br>**1985–86**: geochem survey, dd. | About 25,000 at 1.5–2.0% Cu, some Au, Ag ***1964***<br>(BC Bull 54, p 203, 1968) | **1906–20**: produced 1,600 oz Au, 27,000 oz Ag, 130 tons Cu from 15,000 tons ore. |
| B.C. 279 | STAR (APEX)<br>Wesfrob ML (in 1960s)<br>103 B/12<br>52°41'50" 131°53'15" | Cp–bearing magnetite skarn zone replacing Jurassic to Triassic Kunga Gp. limestone (in base of small roof pendant) near margin of Middle Jurassic San Christoval hornblende diorite pluton. | **1907–26**: u/g work total 400' in 2 adits.<br>**1963**: dd in 3 holes. | About 300,000 Cu grade unstated ***c 1926***<br>(GSC EG, Vol 1, p 30, 1926) | Drilling indicated somewhat less tonnage with approx grade of 50% Fe, 1% Cu.<br>(BC Bull 54, p 192, 1968) |
| B.C. 280 | TASU<br>103 C/16<br>52°45'40" 132°02'40" | Massive magnetite skarn deposit, with cp, primarily in amygdaloidal greenstones of Triassic Karmutsen Fm at or near contact with Middle Jurassic San Christoval hornblende diorite pluton. | **1967–83**: producer. | c 4,000,000 low–grade Cu deleted from reserves in 1981–82<br>(Falconbridge Nickel ML 1981–82 ARs) | **1967–83**: produced 1 372 Kg Au, 50 350 Kg Ag, 59 746 mt Cu, 12 061 189 mt Fe concentrate from 22 577 000 mt ore. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 281 | CINOLA (BABE)<br>City Res (Canada) L<br>103 F/9<br>53°32' 132°13' | Epithermal Au deposit assoc with Miocene rhyolite porphyry dyke that intrudes the faulted contact between Cretaceous shale and Late Tertiary coarse clastics. Silicification and mineralization are contemporaneous with clastic sedimentation. | **1971**: geochem survey and dd.<br>**1972**: geochem survey, trenching and dd.<br>**1974–75, 1977–79**: dd.<br>**1980–82**: u/g expl and feasibility study.<br>**1984–85**: dd, metallurgy tests.<br>**1986–88**: dd, drifting, bulk sampling, metallurgy tests, feasibility study. | Ind: 53,000,000 at 0.055 oz/t Au, 0.05 oz/t Ag ***1982***<br>(GCNL 04/11/85)<br>*or* mineable 27,300,000 at 0.062 oz/t Au using a 0.032 oz/t Au cut-off<br>(City Res [Canada] 1987 AR) | Metallurgical tests indicate about 86% Au recovery. |
| B.C. 282 | BANKS<br>Trader Res Corp<br>103 G/8<br>53°21'50" 130°07'30" | Au, py, cp, asp, sph, gal in a lens of marble, skarn and other metamorphosed sedimentary remnants at fault intersections in an area of Jurassic qtz diorite and qtz monzonite plutons of the Coast Plutonic Complex . Au values associated with asp. | **1963–64**: geochem and SP surveys, trenching, dd.<br>**1973–75**: mag, EM and geochem surveys, trenching, dd.<br>**1977–78**: decline driven 1,425', dd.<br>**1984–85**: geoph and geochem surveys, dd.<br>**1986–87**: geoph survey, tr, dd. | 79,260 at 0.209 oz/tAu in the Kim deposit; 64,339 at 0.455 oz/t Au in the Discovery deposit; 78,657 at 0.422 oz/t Au in the Tel deposit<br>(Trader Res Corp Letter to Shareholders, 28/03/88) |  |
| B.C. 283 | HUNTER<br>Freemont Gold Corp<br>103 H/1<br>53°12' 128°22' | Au–bearing qtz–py–cp veins in roof pendant of metavolcanic rocks in a qtz–monzonite stock of Coast Plutonic Complex. | **1927–30**: tr.<br>**1939–41**: u/g work in adit and inclined shaft.<br>**1983–84**: geochem survey, tr, dd.<br>**1988**: rock geochem survey, dd. | 104,000 at 0.35 oz/t Au ***1983***<br>(GCNL 13/06/84) | Diluted to a 4' mining width. |
| B.C. 284 | SURF INLET<br>Surf Inlet Ms L<br>103 H/2<br>53°05'00" 128°52'50" | Au in two qtz veins in shear zone in a chlorite schist inclusion in qtz diorite of Coast Plutonic Complex. Age of mnzn: Late Cretaceous. The veins join at a depth of about 550'. | **1910–26**: intermittent dev. A 300 t/d mill operated 1917–26.<br>**1933–42**: milling at 70 t/d.<br>**1946**: milling, u/g dev.<br>**1981**: dd to test large tonnage potential.<br>**1988**: u/g rehabilitation, dd. | Pugsley zone: 47,250 prob and poss at 0.35–0.45 oz/t Au ***1961***<br>(NM 24/01/74)<br>*or* 47 250 mt at 11.34 g/t Au, 9.5 g/t Ag, 0.6% Cu<br>(CIM Spec Vol 37, p 184) | **1902–43**: produced 380,000 oz Au, 200,000 oz Ag, 3,000 tons Cu from 1,000,000 tons ore. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 285 | ECSTALL<br>Falconbridge L<br>103 H/13<br>53°52'25" 129°30'40" | Py, sph, cp and gal as massive replacements of certain favourable beds in Paleozoic schist, qtzite and granitoid gneiss remnant within the Coast Plutonic Complex. | **1901–03**: adit to 107', dd, bulk sampling.<br>**1917–20**: dd.<br>**1923**: dd, metallurgical studies.<br>**1937–40**: geoph survey, dd, new adit to 2,780' with about 1,400' of drifts and raises.<br>**1952**: EM survey and u/g dd.<br>**1966**: bulk sampling and metallurgical testing.<br>**1975**: EM survey.<br>**1986**: geoph and geochem surveys, dd. | Ind: 5,000,000 at 49.35% S, 42.75% Fe, 2.3% Zn, 0.2% Pb, 0.8% Cu, 0.02 oz/t Au, 0.71 oz/t Ag, ***including*** 650,000 at 1.91% Cu, 2.30% Zn, 0.03 oz/t Au, 1.0 oz/t Ag ***1923***<br>(W B Maxwell 16/04/42, British Columbia Pyrites CL)<br>***or*** at least 8,000,000, no grade stated ***1952***<br>(BC Bull 39, p 41, 1957) | |
| B.C. 286 | SCOTIA<br>Falconbridge L<br>103 I/4<br>54°04'55" 129°40'20" | Po, py, sph and minor gal near a fold axis in a gneissic pendant within the Coast Plutonic Complex. | **1960**: dd.<br>**1980–81**: dd.<br>**1984**: dd. | Ind potential of 150 000 mt at 13.3% Zn, 1.4% Pb, 25 g/t Ag ***1984***<br>(VSE SMF, Andaurex Res Inc, 29/08/84) | |
| B.C. 287 | DARDANELLE<br>Univex Mng Corp<br>103 I/8<br>54°29' 128°14' | Qtz veins along both sides of an albite dyke in granodiorite contain py, sph, gal, cp. | **1914–27**: adit and shaft.<br>**1937–40**: 1,646' adit.<br>**1964–70**: geochem survey, tr, dd.<br>**1988**: geochem survey, u/g rehabilitation. | Inf: c 200,000 containing 44,000 oz Au, 400,000 oz Ag ***1983***<br>(GCNL 13/02/84) | |
| B.C. 288 | KELLY CREEK<br>Imperial Mtls Corp<br>103 I/8<br>54°27'10" 128°08'15" | Cp and bornite in fractures in granodiorite and as blebs and stringers in fractured rhyolite tuff and breccia. Bornite as disseminations in rhyolite dykes. | **1965–67**: trenching, IP and geochem surveys, dd.<br>**1968–71**: IP and geochem surveys, adit to 1,000', dd.<br>**1980–83**: dd. | 2,500,000 dd ind at 1.03% Cu, 0.54 oz/t Ag ***plus*** 2,500,000 inf at same grade<br>(NM 27/11/80)<br>***or*** 601,000 at 2.23% Cu, 1.34 oz/t Ag<br>(VSE LS, Imperial Mtls Corp, July/85) | In Warren zone.<br>At 1.5% Cu cutoff. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 289 | ALVIJA<br>J Tough (in 1980)<br>103 I/9<br>54°33′48″ 128°10′35″ | Bornite in fractures and disseminations in shear zone in Jurassic tuffs and breccias intercalated with dacite porphyry. | **1908–14**: open cuts, inclined shaft, short adit.<br>**1929**: 2nd adit driven.<br>**1968–70**: geochem survey, trenching, dd.<br>**1980**: geochem survey. | 200,000 at 4% Cu, 2 oz/t Ag ***1968***<br>(WM Oct 1968, p 154) | Available data suggests a lower tonnage and grade. |
| B.C. 290 | CROESUS<br>Fircrest Resources Ltd<br>103 I/9<br>54°32′50″ 128°25′30″ | Qtz and py in narrow vein in fault zone at contact of silicified metavolcanics and qtz diorite of Coast Plutonic Complex. | **1930s–40s**: u/g work in 3 adits.<br>**1969–72**: EM and geochem surveys, trenching, dd, bulk sampling.<br>**1979**: geochem survey, dd.<br>**1988**: geochem and geoph surveys. | Ind: 4,800 at 0.76 oz/t Au, 1.72 oz/t Ag across 3′ ***1971***<br>(W M Sharp 30/08/71 in VSE SMF 13/09/72, Kendal Mng & Expl CL) | In old adits. |
| B.C. 291 | NORTHWEST<br>E P Hudson (in 1973)<br>103 I/9<br>54°30′40″ 128°02′00″ | Jurassic volcanics intruded by dykes, sills and irregular bodies of andesite to micro–diorite. At No 1 zone bornite disseminated in a sequence of lapilli tuff and vitrophyre over a strike length of 200′ and width of 80′ or more. | **1914**: prospecting.<br>**1962**: trenching.<br>**1964–65, 1973**: geochem survey, dd. | No 1 zone: 31,000 at 1.7% Cu to 80′ ***1972***<br>(T Sadlier–Brown Oct 72 ***in*** VSE SMF 19/06/73, Spectroair Expls L) |  |
| B.C. 292 | PITMAN (JB)<br>E & B Expls (in 1980)<br>103 I/9<br>54°43′45″ 128°19′50″ | Mo in qtz veins, fracture fillings and disseminations in granite dykes cutting granodiorite of Coast Plutonic Complex near contact with Jurassic volcanics of Hazelton Assemblage. | **1959**: trenching, sampling.<br>**1964–65**: geochem survey, dd.<br>**1979–80**: dd. | 3 400 000 mt at 0.08% Mo ***1965***<br>(CIM Spec Vol 15, Table 1, No 105, 1976) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 293 | SURF POINT, EDYE PASS<br>Cathedral Gold Corp<br>103 J/2<br>54°01'40" 130°35'00" | Narrow qtz veins in fractures and shear zones in Cretaceous to Tertiary qtz diorite of Coast Plutonic Complex contain auriferous pyrite lenses. | **1917–20**: trenching and several adits driven.<br>**1929–39**: u/g dev and mill operated.<br>**1975, 1977**: geoph and geochem surveys, dd.<br>**1978–81**: dd and u/g work.<br>**1984–85**: bacterial leach tests.<br>**1987–88**: geoph and geochem surveys, dd, metallurgical tests | Ind, inf: 1,523,000 at 0.20 oz/t Au<br>(Imperial Metals Corp, 3rd Q Report, 31/12/88) | In AT zone. |
| B.C. 294 | SHAG ROCK<br>Naden Harbour<br>Manganese L (in 1965)<br>103 K/2<br>54°08'55" 132°39'20" | Mn minerals (mainly manganite, pyrolousite hausmannite jacobsite) cementing volcanic breccia in fault cross–cutting Tertiary amygdaloidal basalt, basalt flows and porphyritic andesite sills. Mineralized veinlets extend into the footwall rocks. | **1965**: bulk sampling, dd. | 15,000 at 15% Mn<br>***c 1965***<br>(BCI 103 F, G – 1) | Visual estimate. |
| B.C. 295 | GEORGIA<br>Samson Gold Corp<br>103 O/16<br>55°47'40" 130°02'45" | Gal, sph, py and cp in qtz–filled fractures associated with a major fault zone in Hazelton volcanics. | **1910–18**: u/g dev in shaft and adits.<br>**1928–33**: new adits and raises driven.<br>**1936–37**: 25 t/d mill operated part–time.<br>**1979–80**: tr, dd.<br>**1988**: dd by Avatar Res Corp | Meas, ind, inf: 320,000 at 0.84 oz/t Au ***1988***<br>(GCNL, 11/05/89) |  |
| B.C. 296 | BONANZA<br>Cominco L<br>103 P/5<br>55°23'45" 129°51'15" | Area underlain by a large sedimentary–volcanic remnant in Coast intrusives. Cp, po, sph and py in shear zone in amphibolite. | **1901–02**: about 800' u/g work in several adits.<br>**1913**: dd.<br>**1929–34**: shaft to 684', ore shipped to Anyox smelter.<br>**1976**: geochem survey.<br>**1980**: airborne geoph survey. | 226 800 mt at 1.0% Cu<br>***c 1937***<br>(CIM Spec Vol 37, p 183) | Production and Reserves total 883 773 mt at 1.88% Cu (BCGF 1985, p 213). Production totalled 656 974 mt. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 297 | DOUBLE ED<br>Cominco L<br>103 P/5<br>55°24′45″ 129°52′35″ | Disseminated cp in siliceous pyrite replacements of sheared andesite flows. | **1935**: geoph surveys, trenching, dd.<br>**1954**: EM survey, dd.<br>**1959–60**: crosscut adit to 2,874′, dd.<br>**1976**: geochem rock sample survey. | 3 628 800 mt at 1.0% Cu, 0.6% Zn ***1960***<br>(BCGF 1985, p 213) |  |
| B.C. 298 | EDEN<br>Cominco L<br>103 P/5<br>55°25′40″ 129°53′30″ | Basic volcanics and sedimentary rocks form a large roof pendant in the Coast Plutonic Complex. | **1953–54**: trenching and dd. | 226 800 mt at 2.0% Cu ***1954***<br>(BCGF 1985, p 213) |  |
| B.C. 299 | HIDDEN CREEK (ANYOX)<br>Cominco L,<br>Prospectors Airways CL<br>103 P/5<br>55°26′33″ 129°49′35″ | Cp, po and py at or near contact between amphibolite and argillite, in an inclusion of Jurassic volcanic and sedimentary rocks in granitic Coast Plutonic Complex. | **1914–35**: Granby operated mine and smelter.<br>**1937–38**: purchased by Cominco, u/g work and dd.<br>**1950–63**: geoph surveys, dd.<br>**1976**: geochem survey.<br>**1982**: dd by Cominco L – Mitsubishi jv.<br>**1987–88**: geoph and geochem surveys, dd. | 1,806,332 at 1.28% Cu, ***incl*** recoverable: 1,124,102 at 1.29% Cu, 0.0031 oz/t Au, 0.24 oz/t Ag in 1 to 6 orebodies ***1935***<br>(Granby 1935 AR)<br>***or*** 18 140 000 mt at 0.46% Cu, 0.03% Co, 0.86 g/mt Au, 31 g/mt Ag<br>(CIM Spec Vol 37, p 183) |  |
| B.C. 300 | MAPLE BAY<br>Dolly Varden Mnrls Inc<br>103 P/5<br>55°25′50″ 129°59′10″ | Cp and po as pods, streaks and specks in qtz veins in a wide zone of cataclasites, mylonites and chlorite schists at the W edge of a Jurassic volcanic – sedimentary pendant in Coast intrusives. | **1903–05**: trenching, several short adits.<br>**1916**: adit driven.<br>**1923–24**: dd by Granby.<br>**1955–56**: dd.<br>**1969–70**: u/g work in 2 adits. | ***Eagle vein***: 522,000 prob at 1.71% Cu, and 590,000 inf at 1.4% Cu ***1931***<br>(J T Mandy 1931 ***in*** BC GEM 1970, p 77)<br>***or*** 478,000 ind and inf at 3.05% Cu across 9.5′<br>(Mandy, 1949 as quoted by F J Hemsworth 20/10/52 ***in*** Maple Bay Copper ML Amendment to Prospectus 04/06/53) | The first set of estimates is based on 1923 dd results. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 301 | OUTSIDER<br>Dolly Varden Mnrls Inc<br>103 P/5<br>55°26'40" 130°00'00" | Cp, po with minor Au-Ag values occur in a qtz vein some 3,000' in length in a large pendant of volcanic-sedimentary rock near the east edge of the Coast Plutonic Complex. | **1904–07**: u/g work and small ore shipment.<br>**1917**: adit extended.<br>**1924–28**: siliceous ore (flux) shipped to Anyox smelter.<br>**1956**: adit extended and several dd holes.<br>**1972–74**: new adit driven 1,000'. | 181 440 mt at 1.5% Cu (CIM spec Vol 37, p 183) | From 138,800 tons shipped in period 1906-1928, 66oz Au, 4,882 oz Ag and 5,266,430 lbs Cu were recovered. |
| B.C. 302 | RED WING<br>Cominco L<br>103 P/5<br>55°22'50" 129°53'00" | Py, po, cp and sph disseminated in a chlorite schist shear zone in andesitic pillow lavas near an over-lying contact with a siltstone–greywacke sequence. These rocks form a large inclusion in Coast Plutonic Complex. | **1911–13**: adit to 120', dd.<br>**1954**: EM survey.<br>**1963**: dd.<br>**1965–67**: new adit to 950', dd, geoph and geochem surveys.<br>**1971**: airborne mag and EM surveys.<br>**1972**: mag and EM surveys, dd.<br>**1982**: airborne, geoph survey. | 200,000 at 2% Cu, some Ag, Zn ***1966*** (NM 06/04/67) | Lenticular zone with probable long vertical axis and potential of 350 T/VF. A rough estimate of grade is 1.84% Cu, 0.86 oz/t Ag. (J W Hogan 17/03/71 ***in*** VSE SMF 11/02/72, Bow River Res L) |
| B.C. 303 | TIDEWATER<br>Richmark Res L<br>103 P/5<br>55°28' 129°32'50" | Widespread mo in qtz veins and stockworks in granitic stock and adjacent hornfels. | **1910-16**: u/g work and brief milling operation.<br>**1930–31**: new adit driven.<br>**1979–80**: geochem and geoph surveys, dd.<br>**1987–88**: reassay of old samples for Au, Ag; dd. | dd–ind c10,000,000 at 0.1% $MoS_2$ (Richmark Res L, Prospectus, 21/12/87) | Local low grade Ag-Au values found by recent work. |
| B.C. 304 | BELL MOLY (MOLY)<br>Amax Inc.<br>103 P/6<br>55°27'40" 129°19'50" | Mo in qtz vein stockwork in both Eocene qtz monzonite porphyry and biotite hornfels in crescent–shaped zone around eastern part of stock. | **1966–67**: geochem surveys, dd.<br>**1970**: geochem survey, trenching on E part of property.<br>**1976**: dd. | 35,860,000 at 0.11% $MoS_2$ ***1967*** (Highland–Bell L, 1967 AR)<br>***or*** 106,000,000 at 0.09% $MoS_2$ (NM 24/04/80) | Includes 21,148,000 at 0.143% $MoS_2$.<br>Tungsten detected in drill cores is of unknown economic significance. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| B.C. 305 | KITSAULT<br>Amax Inc.<br>103 P/6<br>55°25'20" 129°25'10" | Five Eocene stocks of quartz monzonite and quartz diorite intrude Jurassic greywacke and argillite. Qtz–mo vein stockwork in 3 stages associated with intramineral dykes. | **1960-63**: dd.<br>**1967–72**: production.<br>**1974**: dd.<br>**1981–82**: production. | Prov, prob: 115,000,000 at 0.186% $MoS_2$ (Amax Inc, 10–K Report, 31/12/85) | The full extent of the mineralization has not yet been defined. Environmental concerns related to the milling operation.<br>The mine was closed permanently in 1989. |
| B.C. 306 | ROUNDY CREEK<br>Amax of Can L<br>103 P/6<br>55°25'35" 129°29'40" | Eocene qtz monzonite porphyry stock intrudes Jurassic argillaceous rocks and is displaced by major fault. East of fault mo in qtz vein stockwork and fracture fillings. West of fault, mo in two lens–like high–grade zones, mainly in alaskite. | **1960**: dd.<br>**1965–66**: geochem survey, dd.<br>**1967–68**: IP and geochem soil surveys, dd on Sunshine Ck.<br>**1969–70**: two adits driven on Sunshine Ck zone.<br>**1971**: dd. | ***(i) Roundy Ck zone***:<br>7 000 000 mt ind at 0.11% $MoS_2$ ***1971***<br>***(ii) Sunshine Ck zone***:<br>1 350 000 mt ind at 0.347% $MoS_2$ ***1971***<br>***(iii) High–grade zone***:<br>35 000 mt ind at 0.668% $MoS_2$ ***1970***<br>(CIM Spec Vol 15, p 467, 1976) |  |
| B.C. 307 | AJAX<br>Newmont Expl of Can L<br>103 P/11<br>55°35'15" 129°24'10" | Four small closely spaced Eocene qtz monzonite porphyry stocks intrude Jurassic argillaceous rocks. Mo occurs in a qtz vein stockwork in the intrusives and in contact zone hornfels. | **1926**: trenching, 100' adit.<br>**1965–67**: airborne mag and geochem surveys, dd. | Meas and ind:<br>178 540 000 mt at 0.121% $MoS_2$ ***1967 or***<br>417 300 000 mt at 0.09% $MoS_2$ ***1967***<br>(CIM Spec Vol 15, Table 3, p 422, 1976) | Very high stripping ratio. |
| B.C. 308 | DOLLY VARDEN<br>Dolly Varden Mnrls Inc<br>103 P/12<br>55°40'55" 129°30'30" | Siliceous and baritic replacement zone containing argentite, ruby silver, native silver and py as a faulted vein–like deposit in Jurassic volcanics. Also interpreted as dismembered volcanogenic massive sulphides. | **1915–16**: u/g work in 6 adits.<br>**1919–21**: available ore mined (37,000 tons).<br>**1935–40**: intermittent high grading operations.<br>**1967**: airborne and ground mag surveys.<br>**1972**: dd.<br>**1978**: geochem survey. | Proven, prob and poss: 47,443 at 16.0 oz/t Ag ***c 1971***<br>(Dolly Varden ML, 1971 AR)<br>***or*** prov, prob: 47,000 at 22.0 oz/t Ag<br>(GCNL 25/05/89) | Combined reserve for this property and 3 others (North Star, Wolf, Toric) held by Dolly Varden is 1,712,444 tons proven, prob and poss at 9.52 oz/t Ag, 0.53% Pb, 0.82% Zn<br>(Dolly Varden ML 1973 AR) |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 309 | NORTH STAR<br>Dolly Varden Mnrls Inc<br>103 P/12<br>55°41'15" 129°30'20" | Py, gal, sph, tetrahedrite and Ag minerals in qtz–barite vein in a complex zone of numerous veins, lamprophyre dykes and Jurassic agglomerate and tuff. | **1916–21**: trenching, 2 adits.<br>**1927–29**: u/g work.<br>**1956–59**: dd, 4th adit driven.<br>**1962–63**: u/g work.<br>**1967**: airborne and ground EM survey.<br>**1978**: geochem survey.<br>**1980**: dd.<br>**1987**: u/g work and dd between North Star and Dolly Varden mines. | Proven, prob and poss: 253,212 at 9.11 oz/t Ag, 1.17% Pb, 3.40% Zn ***c 1971***<br>(Dolly Varden ML, 1971 and 1973 ARs)<br>***or*** Prov, prob: 141,000 at 11.71 oz/t Ag<br>(GCNL 25/05/87) |  |
| B.C. 310 | TORBIT (TORIC)<br>Dolly Varden Mnrls Inc<br>103 P/12<br>55°44'10" 129°33'20" | Py, gal, native silver, sph and cp in massive irregular–shaped qtz–barite–jasper replacement zone in folded Jurassic volcanics. Replacement zone locally up to several hundred feet wide carrying Ag values but commercial grade confined to shoots and lenses from 10 to 80' wide. | **1916–23**: trenching, 3 adits.<br>**1924–30**: u/g dev, intermittent milling in 1927–28, dd.<br>**1946–59**: u/g work in new adit and shaft, 300 t/d mill operated 1949–59.<br>**1966**: u/g work.<br>**1967**: airborne and ground mag surveys.<br>**1978**: geochem survey. | Proven, prob and poss: 866,812 at 9.10 oz/t Ag, 0.42% Pb, 0.50% Zn ***1971***<br>(Dolly Varden ML, 1971 AR)<br>***or*** 7,146,000 at 3.9 oz/t Ag ***including*** 1,348,000 at 9.4 oz/t Ag ***1966***<br>(Dolly Varden ML 31/03/67 AR) | 4,800,000 tons might be available for o/p mng with a 1:1 stripping ratio.<br>Between 1928 and 1959 the mine produced 18,600,000 oz Ag and 5,400 tons Pb from 1,400,000 tons milled. |
| B.C. 311 | VANGUARD<br>Caulfield Res L<br>103 P/12<br>55°44'10" 129°33'20" | Altered feldspar porphyry in contact with Hazelton volcanics. Massive py and cp with minor qtz and barite occur as veins and lenses in shear zones in the intrusives. At the "Gold" showing qtz, carbonate, py, cp, gal and sph occur as replacements, without well–defined boundaries, in the intrusives. | **1912–16**: open cuts and adits.<br>**1926–27**: x–cutting and drifting in several adits.<br>**1947, 1951**: new x–cut adit driven to "Gold" showing.<br>**1966**: geol, geoph and geochem surveys.<br>**1968**: minor u/g work.<br>**1981**: geoph and geochem surveys. | 10,000 at 8.6% Cu, 4.1 oz/t Ag, 0.07 oz/t Au ***1966***<br>(VSE AL 133/80, Caulfield Res L) | Based on 1966 surveys and general property examination. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 312 | VICTORY<br>103 P/12<br>55°43'30" 129°30'50" | Gal, sph, tetrahedrite and some native silver in qtz–barite–jasper–pyrite vein-like replacements along fracture zones in volcanics. | **1918–21**: trenching, dd, adit.<br>**1923–32**: intermittent small scale dev.<br>**1963–67**: dd.<br>**1975**: trenching, dd.<br>**1980–81**: geoph and geochem surveys. | Ind: 73,000 at 11.47 oz/t Ag, in 2 zones ***1975***<br>(E M Wilson ***in*** VSE SMF 14/07/75, Northern Homestake ML) |  |
| B.C. 313 | WOLF<br>Dolly Varden Mnrls Inc<br>103 P/12<br>55°42'30" 129°31'00" | Gal, sph, mag, pyrargyrite, tetrahedrite and native silver in three vein–like qtz–barite–jasper–py replacement deposits in fractures and shear zones in Jurassic tuff and agglomerate. | **1915–16**: adit, dd.<br>**1929**: dd.<br>**1960–64**: dd, 3 new adits.<br>**1967–70**: airborne mag survey; dd and u/g work.<br>**1978**: geochem soil survey.<br>**1980**: dd. | Proven, prob and poss: 534,969 at 9.79 oz/t Ag, 0.59% Pb, 0.12% Zn ***c 1971***<br>(Dolly Varden ML, 1971 and 1973 ARs) |  |
| B.C. 314 | LUCKY SEVEN<br>103 P/13<br>55°58'20" 129°54'50" | Py, gal, sph and asp in qtz veins in major fault zone cutting Jurassic argillite. | **1905–11**: u/g work in 3 adits and shaft; milling part time in 1910–11.<br>**1913–14**: long low–level crosscut adit driven.<br>**1954–55**: sampling.<br>**1971–73**: geochem survey, dd. | Dd–ind: 12,300 at 0.065 oz/t Au, 6.09 oz/t Ag, 1.58% Pb, 1.87% Zn, across 5.4' ***1973***<br>(W G Hainsworth 15/11/73 ***in*** VSE SMF 03/12/73, Starbird ML) |  |
| B.C. 315 | PROSPERITY, PORTER–IDAHO<br>Pacific Cassiar L,<br>Rainy Mtn Res Inc<br>103 P/13<br>55°54'25" 129°56'00" | Gal, sph, tetrahedrite and native silver in narrow irregular qtz veins in Jurassic Hazelton volcanics. | **1926–31**: over 20,000' of x-cuts, drifts and raises in 10 or more adits.<br>**1980**: dd.<br>**1982**: geochem survey.<br>**1983–85**: dd. | Meas, ind: 911,000 at 19.5 oz/t Ag, c 5% combined Pb–Zn<br>(GCNL 19/03/85) | Includes an estimated 135,000 tons at 33.8 oz/t Ag in the D vein. (Pacific Cassiar 1988 AR) |
| B.C. 316 | GEORGE COPPER<br>Tournigan Mng Expls L<br>104 A/4<br>56°06'13" 129°45'20" | Cp and py with values in Au and Ag as fracture controlled replacements in Jurassic volcanics. Cp and py disseminated in argillite–tuff–iron Fm. | **1911–19**: u/g work in 2 adits.<br>**1927–29**: dd.<br>**1976**: dd. | Estimates vary between 110,000 (Smitheringale 1926) and 500,000 (McEachern 1956) with a grade of 2% Cu, 0.5 oz/t Ag, 0.06 oz/t Au<br>(G Keyte, Dec 78 ***in*** VSE SMF 12/07/79, Tournigan Mng Expls L) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 317 | TODD CREEK<br>Noranda Expl CL,<br>Golden Nevada Res Inc<br>104 A/4<br>56°14' 129°47' | Qtz breccia veins in feldspar porphyry and Jurassic Unuk River Formation volcanics contain zones of copper mineralization and values in gold. | **1960**: tr, dd.<br>**1984**: geochem survey.<br>**1987–88**: geochem surveys, tr, dd. | Geological: 207 600 mt at 5.48 g/mt Au (Hemlo Gold Mines Inc, 1988 AR) | Located some 35 km NNE of Stewart. |
| B.C. 318 | GRANDUC<br>Granduc Ms L<br>104 B/1<br>56°12'45" 130°20'30" | Volcanogenic massive sulph deposit in Lower Jurassic Unuk River Fm. volc–sed rocks. Several overlapping, tabular sulph lenses contain cp, py, po, mag, sph, gal, asp, bornite and cobaltite. | **1971–78**: mill operated.<br>**1981–84**: mill operated; mill removed in 1984. | 9 890 000 mt at 1.79% Cu, minor Au-Ag (BC Prel Map 65, 1988) |  |
| B.C. 319 | SCOTTIE GOLD<br>(SALMOND GOLD)<br>Royal Scot Res L<br>104 B/1<br>56°13'10" 130°05'40" | Erratic Au and low Ag values in narrow qtz-carb-po-py veins in Jurassic volcanic-sedimentary rocks which are altered, fractured and intruded by local dyke swarms and the nearby Summit Lake granodiorite stock. | **1931**: tr, dd.<br>**1934–40**: dd, adit, drifting, crosscutting, u/g dd.<br>**1945-48**: u/g dev and dd, 2nd adit, drifting, crosscutting, raising.<br>**1950-60**: minor exploration.<br>**1979-80**: new access adit and u/g dev.<br>**1981-84**: mine and mill operated. | Prov, prob, poss: 132,000 at 0.56 oz/t Au using a 65% dilution factor and 0.135 oz/t Au cut-off grade (Royal Scot Res, 2nd Q Report, 27/02/87) | Property some 30 Km NNW of Stewart. Mine operated Oct 81 to Jan 85, producing 85,432 oz Au and over 38,662 oz Ag from some 160 000 tonnes milled. A 200 t/d u/g mill on the property. |
| B.C. 320 | SILVER BUTTE (S-B)<br>Tenajon Res Corp<br>104 B/1<br>56°06'20" 130°02'00" | Py, gal, sph, cp and low Au–Ag values occur in stockwork zone of qtz–carb veins in altered (sericite–py–carb) andesites of Lower Jurassic age. | **1939**: short adit and sampling.<br>**1971**: geochem soil survey.<br>**1981–83**: geoph survey, tr, dd.<br>**1986–88**: Exploration adit, surface and u/g dd.<br>**1989**: u/g expl and dd. | Prob, poss: 308,000 at 0.505 oz/t Au, 1.07 oz/t Ag (uncut) (Tenajon Res, News Release, 21/02/89) | In Kansas and Face Cut/ 35 zones.<br>In 1989, under joint venture agreement with Westmin Res L. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 321 | KERR<br>Placer Dome Inc<br>Sulphurets Gold Corp<br>104 B/8<br>56°28'30" 130°16' | Py, cp with Au-Ag values in altered Jurassic andesitic tuffs in the vicinity of a major fault. | **1983–88**: geochem and geoph surveys, tr, dd.<br>**1989**: dd. | Inf: 66,000,000.<br>Avg grade of drill intersections is 0.86% Cu, 0.010 oz/t Au, 0.06 oz/t Ag<br>(Sulphurets Gold Corp, 1988 AR) |  |
| B.C. 322 | BRUCEJACK<br>Newhawk GML,<br>Granduc Ms L<br>104 B/8<br>56°28'00" 130°11'20" | Au–Ag in an ephithermal qtz–carbonate–breccia zone in altered Jurassic volcanic, sedimentary and intrusive rocks. Low-grade zone of dissem Au with Cu–Mo in highly pyritized and carbonitized volcanic and intrusive rock. | **1976–77**: geochem surveys, tr.<br>**1980–83**: Esso Mnrls option; tr, dd.<br>**1985–89**: u/g dev, dd, feasibility studies. | Meas, ind, inf: 854,072 at 0.354 oz/t Au, 22.94 oz/t Ag<br>(Newhawk News Release, 17/11/88) | In West Zone. |
|  |  |  |  | ind and inf: 1,584,145 at 0.336 oz/t Au, 22.86 oz/t Ag<br>(Newhawk 1986 AR) | In Brucejack (West, Shore and Gossan Hill zones). |
|  |  |  |  | ind: 7 700 000 at 0.075 oz/t Au<br>(GCNL 24/08/89) | In Snowfield zone, based on 5 ddh and 24 tr. |
|  |  |  |  | inf: 20,000,000 at 0.08 oz/t Au<br>(GCNL 24/08/89) | In Sulphurets Lake gold zone. |
| B.C. 323 | DOC<br>Echo Bay Ms L,<br>Magna Ventures L,<br>Silver Princess Res Inc<br>104 B/8<br>56°20'30" 130°27'30" | Minor sulphs and Au–Ag values occur in qtz veins in shear zone in Late Triassic, folded, metamorphosed andesitic tuffs with interbedded siltstone, wacke and marble. | **1947–49**: tr,dd.<br>**1974–75**: geoph survey.<br>**1980**: geochem survey.<br>**1985–88**: geochem survey, tr, u/g dev, dd.<br>**1989**: mapping, sampling. | Prov, prob, poss: 470,000 at 0.27 oz/t Au, 1.31 oz/t Ag<br>(NM 07/11/88) | In Q17 and six other veins. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 324 | ESKAY CREEK (CALPINE)<br>Cons Stikine Silver L<br>Calpine Res Inc<br>104 B/9<br>56°37'00" 130°27'55" | Massive sph, gal, py and diss tetrahedrite in pods, and gal, sph, cp, asp, tetrahedrite in stockwork in 450m wide zone of sheared Lower Jurassic rhyolitic breccia. Variable Au, Ag values are found in both types of zones in this epithermal (?) deposit. | **1933–37**: trenching, dd.<br>**1939–40**: adit driven.<br>**1946**: adit extended.<br>**1953**: trenching, dd.<br>**1963–67**: new adit driven to 586', geoph survey, dd.<br>**1970–73**: geoph and geochem surveys, trenching, dd.<br>**1975–76**: geoph surveys, dd.<br>**1979**: geol survey; high–grade bulk sample shipped.<br>**1980–82**: US Borax & Chem Corp option, geochem surveys, dd.<br>**1985**: Kerrisdale Res L, dd, geochem survey.<br>**1988–89**: geochem and geoph surveys, dd, bulk sampling, metallurgical tests. | geological: 2,800,000 at 0.23 oz/t Au, 3.34 oz/t Ag<br>(GCNL 09/06/89) | Open pit material. |
| B.C. 325 | E & L<br>Cons Silver Standard ML<br>104 B/10<br>56°34'35" 130°41'15" | Disseminated po, pn and cp in Lower Jurassic cp gabbro. Sulphs occur as blebs and in massive form, distributed relatively evenly throughout the gabbro. | **1965–66**: 1,248' dd in 5 holes.<br>**1970–71**: low level adit driven 1,478', u/g dd 7,414' in 11 holes.<br>**1986**: sampling. | Meas and ind:<br>1,911,000 at 0.80% Ni, 0.62% Cu to 700' **1966 or**<br>Dd ind 3,000,000 at 0.7% Ni, 0.8% Cu (Cons Silver Standard 1986 AR) | Adit driven some 1,250' vertically below surface outcrop and 850' below lowest drill intersection failed to locate ore grade mineralization. Sampling in 1986 indicated up to 400 PPB platinum (0.01 oz/t), 415 PPB palladium and minor Au values. |
| B.C. 326 | SNIP<br>Cominco L<br>Prime Res Corp<br>104 B/11<br>56°39'50" 131°06'20" | Mesothermal Au deposit with Au values associated with sulphide mineralization (py, po, cp, sph, gal, asp, mo) in 1 m to 10 m thick shear vein cross–cutting (Lower Jurassic?) sequence of massively–bedded feldspathic greywacke–siltstone rocks. | **1966**: tr.<br>**1981–83**: geochem survey, tr.<br>**1986–89**: dd, u/g development, feasibility study. | 1,600,000 at 0.64 oz/t Au (CMJ, June 1989, p 109) | Mineable; using a dilution factor of 25%. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 327 | HANK<br>Lac Minerals L<br>104 G/1<br>57°13'00" 130°30'00" | Au occurs in carbonate veins in zones of sericite–carbonate–pyrite alteration in Triassic volcanics. | **1983**: geochem survey.<br>**1985**: geochem survey, tr, dd. | Ind: c250,000 at 0.13 oz/t Au in South zone ***and*** c250,000 at 0.07 oz/t Au in North zone (Lac Minerals L, Prospectus, 07/07/87) | Both zones are open pit material. |
| B.C. 328 | BAM (ARCTIC LAKE)<br>(JAN)<br>104 G/2<br>57°11'20" 130°52'20" | Tetrahedrite and minor cp in fractured Permian dolomitized limestone, chert breccias and overlying sandstone. | **1963–64**: staked, 736' dd in 3 holes.<br>**1967**: Shawinigan Mng & Smg CL, 11,589' dd in 31 holes.<br>**1972**: geochem soil and silt survey.<br>**1983**: prospecting.<br>**1986-87**: geochem and geoph surveys, tr, dd on adjacent ground, by Chevron Minerals and Radcliffe Res. | Slightly under 300,000 at 0.76% Cu ***1967***<br>(NM 16/11/67) | On Jan claims. |
| B.C. 329 | COPPER CANYON<br>Canamax Res Inc<br>104 G/3<br>57°07'00" 131°20'40" | Cp and py disseminated in bleached, pyritized zones in Jura–Triassic syenite porphyry dykes and stocks intruding Permian limestone and Triassic argillites and volcanic rocks. | **1957**: dd.<br>**1962**: geoph survey, tr. | 28,000,000 at 0.64% Cu, 0.02 oz/t Au ***1964***<br>(VSE, SMF, 21/06/89, Cons Goldwest Res L) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 330 | GALORE CREEK<br>Stikine Copper L<br>104 G/3<br>57°08'00" 131°27'15" | Cp, py, bornite, mag as disseminations, skarns, coarse replacements and fracture fillings in porphyry and breccias and Triassic metasedimentary and metavolcanic rocks. Bio–orth–garnet–epidote–chlorite alteration in intrusive and host rocks.<br>About 80% of minz'n occurs as skarn and replacement type rather than stockwork veins as in other porphyry–type deposits. Alteration features, structures and lithologies similar to other alkalic porphyry Cu deposits. | **1956**: 1,253' dd.<br>**1963–65**: mag, IP and geochem soil surveys, 129,659' dd.<br>**1966–67**: 2,480' drifts and crosscuts in one adit, 83,177' dd in 111 holes.<br>**1972–73**: Hudson Bay Mng & Smg CL, 5 233 m dd in 24 surface holes.<br>**1976**: dd. | ***Central zone***:<br>125 000 000 mt at 1.06% Cu *c* ***1973***<br>(CIM Spec Vol 15, p 402, 1976)<br>***includes*** 27,232,000 at 0.97% Cu, 0.22 oz/t Ag, 0.011 oz/t Au, diluted (CMH 1985–86, p 381) | O/p material. |
| B.C. 331 | PAY DIRT<br>Cons Silver Standard ML<br>104 G/4<br>57°04'00" 131°31'30" | Au–bearing silicified and pyritized zones in Triassic volcanics. The volcanics are locally intruded by granodiorite and syenite–monzonite. | **1964–65**: tr and dd on nearby Cu showing.<br>**1974**: geochem survey indicated low Au values.<br>**1981**: potential for Au recognized. Cu zone and adjacent ground staked. Geochem survey led to Au–bearing outcrop.<br>**1985**: geochem survey, tr, dd.<br>**1987**: 65.5 m of drift adit and dd by Longreach Res L. | Dd–ind geological:<br>200,000 at 0.112 oz/t Au<br>(Cons Silver Standard 1988 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 332 | SCHAFT CREEK<br>Liard Copper ML,<br>Teck Corp<br>104 G/7<br>57°21'55" 130°59'30" | Bornite, cp and mo in fractures, veinlets and disseminations in fractured Triassic andesite which has undergone hydrothermal alteration. Associated Jura–Triassic Hickman Batholith diorite and granodiorite contain less than 10% of the mineralization. | **1959**: geoph and geochem surveys.<br>**1965–67**: dd, IP survey.<br>**1968–77**: mag, IP and geochem surveys, dd.<br>**1980–81**: geoph survey and 25 744 m dd in 126 holes. | 1,000,000,000 at 0.30% Cu, 0.034% $MoS_2$, 0.004 oz/t Au, 0.035 oz/t Ag ***1981***<br>(Teck Corp, 1981 AR) |  |
| B.C. 333 | RED DOG<br>Calnor Res L,<br>Cominco L<br>104 G/9<br>57°41'15" 130°29'00" | Upper Triassic volcanics and sedimentary rocks intruded by dykes, sills and irregular masses of andesite and dacite porphyry, and by a Jurassic to Cretaceous granodiorite dyke. Py and cp occur as disseminations in the granodiorite dyke and adjacent wallrock. Gold occurs with py, asp, sph, gal in narrow qtz–carb veins in volcanic and sedimentary rocks. | **1969–73**: geoph and geochem surveys, dd.<br>**1978–80**: geochem survey, trenching, dd.<br>**1984**: geochem and geoph surveys.<br>**1989**: dd. | Dd ind: 1,550,000 at 0.041 oz/t Au ***1980***<br>(NM 19/03/81)<br>***or*** 2,400,000 at 0.037 oz/t Au ***1981***<br>(Northair Mines, 1983 AR) |  |
| B.C. 334 | HAWK (KLASTLINE)<br>Newhawk Gold Ms L<br>104 G/9<br>57°42'20" 130°29'40" | Triassic volcanics and pyroclastics are intruded by qtz monzonite dykes. Qtz veins are locally Au and sulphide bearing. | **1968**: dd.<br>**1978–80**: geochem survey, u/g work, dd.<br>**1984**: geochem and geoph surveys.<br>**1987**: geochem and geoph surveys. | Ind: 12,700 at 0.352 oz/t Au<br>(VSE, Prospectus, 14/10/88, Moongold Res Inc) |  |
| B.C. 335 | RED, CHRIS<br>Falconbridge L<br>104 H/12<br>57°42'05" 129°47'55" | Py, cp and some bornite in qtz vein stockwork, fractures and disseminations in volcanic and sedimentary rocks intruded by feldspar porphyry. | **1970–78**: geochem, mag and IP surveys, dd.<br>**1980**: dd. | Dd ind, inf: 45,200,000 at 0.56% Cu, 0.01 oz/t Au ***1976***<br>(Texasgulf Inc, 1976 AR) | In the Main and East zones. To a depth of 500'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 336 | SMRB, JEFF (KUTCHO CREEK)<br>Sumac Ms L,<br>Esso Mnrls Can<br>104 I/1<br>58°12'10" 128°21'40" | Stratabound dispersed and massive sulphides in sedimentary and epiclastic Upper Triassic calc–alkaline volcanic rocks of the Kutcho Ck Fm near the top of a volcanoclastic pile. Py, cp, sph, bornite. | **1973–76**: extensive IP, mag, EM and geochem surveys; dd.<br>**1977–78**: geoph survey and dd.<br>**1982**: u/g work, dd.<br>**1985–86**: geoph surveys, engineering and environmental studies. | ***(i) SMRB***: 11 000 000 mt at 1.68% Cu, 2.14% Zn, 25 g/t Ag, 0.39 g/t Au ***1982***<br>(WM 02/83)<br>***(ii) JEFF***: dd–ind: 6 000 000 mt at 4.33% Zn, 2.38% Cu, 44 g/mt Ag, 0.4 g/mt Au ***1979***<br>(Imperial Oil L, 1979 AR)<br>***or Total***: 17 000 000 mt at 1.62% Cu, 2.3% Zn, 0.06% Pb, 29.2 g/mt Ag, 0.3 g/mt Au ***1980***<br>(BC Exploration Review, 1985, p 9) | Mineralized zone extends across the boundary between the SMRB and JEFF properties. |
| B.C. 337 | GNAT LAKE (JUNE, STIKINE)<br>Integrated Res L<br>104 I/5<br>58°15'10" 129°49'30" | Cp and minor bornite in altered andesitic greenstones and porphyritic andesites as blebs, wisps, disseminations and along fracture planes. Near qtz monzonite and granodiorite of Hotailuh batholith. | **1965–68**: geoph and geochem, 57,262' dd in 102 holes. | Ind: 33,500,000 at 0.389% Cu ***1972***<br>(D W Ashbury 24/10/72, CSE List Stat 07/11/72, Lytton Mnrls L)<br>***or*** 18 140 000 mt at 0.44% Cu, 0.31 g/mt Au<br>(BC Preliminary Map 65 1986) | Includes 20% dilution with wallrock grading 0.15% Cu. |
| B.C. 338 | EAGLE<br>Casau Exploration L<br>104 I/6<br>58°29'40" 129°09'00" | Cp and py occur over a distance of about 4,500' at contact between Early Jurassic granodiorite stock and Upper Triassic volcs and seds. | **1963–65**: geoph and geochem surveys, dd.<br>**1971–76**: geoph and geochem surveys, dd.<br>**1979–82**: geoph and geochem surveys, dd. | Approx. 30 000 000 mt at 0.41% Cu, 0.0216% $MoS_2$, 0.2 g/mt Au, 2.71 g/mt Ag<br>(CIM Spec Vol 37, p 182) |  |
| B.C. 339 | LETAIN (KUTCHO CREEK)<br>Cassiar Mng Corp<br>104 I/7<br>58°20'00" 128°43'40" | Chrysotile fibre veins in serpentinite sill that intrudes more or less concordantly a sequence of metasedimentary and metavolcanic rocks of Cache Creek Assemblage. | **1956–58**: trenching, dd, bulk sampling.<br>**1966**: mag survey, trenching, dd.<br>**1970**: trenching.<br>**1977–78**: dd. | Poss geological:<br>15 700 000 mt grading 4.7% asbestos fibre at a 3% cut–off<br>(Cassiar Mng Corp, Prospectus, 05/12/85) | To the 1 600 m level. Potential to extend to the 1 400 m level. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 340 | MT OGDEN<br>Omni Res Inc (1988?)<br>104 K/6<br>58°27′ 133°22′ | Qtz–mo vein stockwork in alaskite–qtz monzonite stock of Coast Plutonic Complex, intruding Permo–Triassic sedimentary rocks. | **1961**: geol.<br>**1967**: Airborne mag, EM, dd.<br>**1977–80**: sampling, adit, u/g work, dd. | 240,000,000 at 0.30% $MoS_2$<br>(Mining Review, May/June 1981) |  |
| B.C. 341 | ERICKSEN–ASHBY<br>Anglo Canadian Mng Corp (in 1981)<br>104 K/11<br>58°39′35″ 133°28′20″ | Volcanogenic exhalative deposit with rhyolite volcanic rocks and Mn–rich replacement orebodies in adjacent limestone and chert of prob Permian age. Massive sulphide zones occur in both the rhyolite and limestone as pods and lenses. Minerals include py, mag, sph, gal and Ag minerals. | **1929–30**: trenching.<br>**1951–52**: geol mapping and dd.<br>**1964**: crosscut adit 460′ and dd.<br>**1965**: trenching.<br>**1979**: geochem rock survey.<br>**1980–81**: dd. | Dd ind: at least 1,000,000 at 6.27 oz/t Ag, 2.23% Pb, 3.79% Zn ***1964 ?***<br>(Anglo Cdn Mng Corp, VSE AL 142/80) |  |
| B.C. 342 | POLARIS–TAKU (WHITEWATER)<br>Suntac Mnrls Corp, Rembrandt GML<br>104 K/12<br>58°42′05″ 133°38′10″ | A wedge–shaped zone of volcanics of poss Upper Triassic age is cut by NW and N–striking shear zones. Mineralization in the shears includes qtz and carbonate veins and fragments of wallrock partly replaced by py and asp and locally stibnite. Gold is associated mainly with asp. | **1929–35**: dd, u/g dev.<br>**1936–42**: Polaris–Taku Mng CL – mng and milling operations.<br>**1946–51**: Taku River GML operated mine and mill.<br>**1988–89**: geochem survey, u/g rehabilitation, dd. | 85,000 at 0.42 oz/t Au at 17% dilution ***1951***<br>(Transcontinental Res L, 1953 [13th] AR)<br>***or*** Prob, poss: 244,000 at 0.33% oz/t Au (diluted) at a 0.15 oz/t cut–off grade, ***1988***<br>(VSE, SMF, 28/02/89, Suntac Mnrls Corp) | 1938–51: milled 753,000 tons, recovering 232,000 oz Au, 12,000 oz Ag, 90 tons Cu. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 343 | TULSEQUAH CHIEF<br>Cominco L,<br>Redfern Resources L<br>104 K/12<br>58°44'20" 133°34'30" | Kuroko–type stratiform volcanogenic massive sulph deposit. Lenses of massive to disseminated sulphides in silicified zones in folded Permian or Triassic volcanics. Ore mnrls include cp, py, sph, gal and tennantite–tetrahedrite. | **1923**: u/g dev.<br>**1928–29**: u/g dev, dd.<br>**1946**: acquired by Cominco, expl and dev.<br>**1951–57**: in prod, closed Sept 57 due to low metal prices. Developed by 9 levels from several adits and a 1,017' shaft.<br>**1981**: geochem survey.<br>**1987**: mapping and sampling over adjacent ground, deep dd.<br>**1988–89**: u/g rehabilitation, dd. | Proven and dd–ind: 788,000 at 0.09 oz/t Au, 2.9 oz/t Ag, 1.3% Cu, 1.6% Pb, 8.0% Zn ***1970*** (New Taku ML, 1971 [33rd] AR)<br>***or*** meas, ind, inf: 2,380,000 at 2.03% Cu, 1.25% Pb, 6.28% Zn, .075 oz/t Au, 2.68 oz/t Ag<br>(Redfern Res, 1987 AR) | Previous operation used the Polaris–Taku concentrator some 4 mi to the S, which treated 1 million tons (incl prod from Big Bull) and recovered Zn, Cu, Pb, Cd, Au, Ag. |
| B.C. 344 | ADANAC (ADERA)<br>Adanac Mng & Expl L<br>104 N/11<br>59°42'40" 133°24'30" | Porphyry deposit with mo in a stockwork of qtz veins in qtz monzonite intrusion in granodiorite of the Late Cretaceous Surprise Lake batholith. | **1967**: dd.<br>**1970**: Kerr Addison – dd, u/g drifting and raising.<br>**1973–74**: Amax – dd.<br>**1979–80**: Placer Dev L, dd; option terminated in 1983. | Geol: 169 000 000 mt at 0.061% Mo (0.04% cutoff) ***1981***<br>***or*** geol: 71 000 000 mt at 0.079% Mo (0.06% cutoff) ***1981***<br>(Placer Dev L, 10–K, March 1982) |  |
| B.C. 345 | ATLIN<br>104 N/12<br>59°34'50" 133°41'10" | Surficial deposits of hydromagnesite 2.5' to 3' thick. Probable source is local cold mnrl springs. | **1904, 1915**: bulk sampling. | 118,000 of which 83% would grade 41–42% MgO ***1940***<br>(BC Bull, 4, p 119, 1940) |  |
| B.C. 346 | HOLLIDAY<br>104 O/15<br>59°59'45" 130°34'00" | Gal, sph, Au, Ag in qtz veins in granitic rocks of the Cassiar batholith. | **1947–49**: dd, sorted ore shipped.<br>**1968–69**: geoph survey, tr, dd.<br>**1972–73**: geoph and geochem surveys, tr.<br>**1983**: Sundance Gold L, option. | 40,000 at 12.46 oz/t Ag, 14.95% Pb, 20.78% Zn (NM 28/06/83) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 347 | MIDWAY<br>Regional Res L<br>104 O/16<br>59°55'35" 130°20'00" | Epigenetic manto deposit. Minz'n consists of irregular, pipe–like, open–space filling and replacement mass sulph bodies in mid–Devonian McDame Gp carbonates beneath a major unconformity. Ag, Pb, Zn minerals and minor Au, Cu, Sn and Bi minerals make up the complex mineralogy of the sulph ore bodies. | **1980**: geochem, prospecting, discovery, tr.<br>**1981**: airborne mag–EM, geochem, dd 6 holes 2,800', tr.<br>**1982**: dd 15 holes 17,334'.<br>**1983–85**: dd, 1 400 m of u/g dev.<br>**1986**: geochem and geoph surveys, drilling in areas away from the known deposit. | Mineable: 1,302,870 at 11.9 oz/t Ag, 7% Pb, 9.6% Zn<br>(Canamax Res Inc 1986 AR) | Regional Res L (75.5%) Procan Expl C (24.5%).<br>Mineralized zone contains low values in Au, Cu, Sn, Bi. |
| B.C. 348 | RANCHERIA (GEM)<br>Bethlehem Res Corp<br>104 O/16<br>59°55'30" 130°29'00" | The mineralization occurs at a limestone–argillite contact near a granitic intrusive. Much of the mineralization occurs as a replacement of limestone by gal, sph, pyrrhotite, ankerite and silver–bearing tetrahedrite. | **1949**: dd.<br>**1964–65**: geoph and geochem, dd, adit driven.<br>**1973**: new adit driven at a lower elevation.<br>**1978**: geochem survey.<br>**1980**: geochem survey.<br>**1985**: geoph survey, tr, dd. | Meas and ind: 79,849 at 10.70 oz/t Ag, 2.84% Pb, 6.03% Zn ***1973***<br>(VSE SMF 88–81, Marbaco Res L) |  |
| B.C. 349 | SILVERKNIFE<br>Reg Res Corp<br>104 O/16<br>59°56'30" 130°22' | Epigenetic Ag–Pb–Zn in Cambrian Rosella Formation carbonates; anomalous tin. | **1984–87**: geoph and geochem surveys, dd. | Dd ind and inf: 400,000; no grade stated.<br>(Reg Res, News Release, 14/04/88) | Weighted average assay values to 511 g/mt Ag, 3.7 g/mt Au, 12.25% Pb, 4.8% Zn.<br>(BC GF, 1986, p 191) |
| B.C. 350 | CASSIAR MOLY<br>104 P/4<br>59°12'40" 129°51'45" | Mo in fractures and rare qtz veinlets, and disseminated as scattered flakes and rosettes in small qtz feldspar porphyry dyke–like intrusions in qtz monzonite of Cassiar batholith, near its eastern margin. | **1966–69**: 2,905' u/g work in one adit, 1,500' dd.<br>**1976**: prospecting.<br>**1980**: dd. | Scattered mineralization over 460 m x 460 m area.<br>(CIM Spec Vol 15, Table 1, No 130). | Local high–grade over narrow widths. Overall grade is low, e.g. 0.026% $MoS_2$ across 100 m in crosscut. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 351 | STORIE (CASMO)<br>Shell Can Res L (in 1982)<br>104 P/4, 5<br>59°14'35" 129°52'20" | Py and mo as fracture fillings and rosettes in qtz feldspar porphyry dyke–like intrusions in qtz monzonite of Cassiar batholith, near its eastern margin. | **1962**: trenching.<br>**1964–66**: geoph surveys, dd.<br>**1968, 1971**: dd.<br>**1979–81**: dd, preliminary feasibility study. | 100 500 000 mt at 0.129% $MoS_2$ ***1981*** (NM 4/03/82)<br>***or*** 45 360 00 mt inf at 0.137% $MoS_2$, ***1985*** (BC MINFILE, 1988, 104P –69) | Mineable by o/p. |
| B.C. 352 | HASKIN MTN WEST (JOEM, RAIN)<br>Della ML<br>104 P/5<br>59°20'50" 129°30'45" | Mo–qtz–muscovite stockwork in Eocene granitic plug and in adjacent Lower Cambrian chert. | **1961**: staked.<br>**1968–69**: dd.<br>**1970–74**: geochem survey, u/g dev, dd. | Ind: 13,500,000 at 0.15% $MoS_2$ to 500' ***1969*** (Iso ML, 1971 AR) | Located on W side of Haskin Mtn. |
| B.C. 353 | MACK<br>Sable Res L<br>104 P/5<br>59°16'30" 129°42'20" | Au–bearing qtz veins in Devonian–Mississippian greenstone of the Sylvester Group. | **1934–39**: trenching, smelting.<br>**1980–81**: u/g work in decline adit, dd.<br>**1984**: u/g dev, dd.<br>**1987**: decline driven. | Drill ind: 80,000 at 0.24 oz/t Au 1980 (Brodie Hicks Engineering L, 31/04/81 ***in*** VSE AL 188/81, Plaza Mng Corp) | Subsequent u/g dev confirmed a smaller tonnage. Exploration in 1985–88 on adjacent property. |
| B.C. 354 | MAGNO (SILVER QUEEN)<br>Shell Can Res L (in 1981)<br>104 P/5<br>59°15'30" 129°50'00" | Ag, Pb, Zn and mag–bearing veins parallel to and often adjacent to andesite dykes cutting marblized limestone and dolomite. A bedded py–gal–sph deposit occurs in limestone on adjacent claims. | **1955**: dd.<br>**1967**: geoph, dd.<br>**1970–71**: u/g work in two adits.<br>**1975–76**: geoph, dd, metallurgical testing.<br>**1980–81**: dd. | ***(i) Middle D zone:*** 81 650 mt at 3.3% Pb, 6.3% Zn, 20 g/t Ag<br>***(ii) Magno East:*** 129 273 mt at 4% Pb, 4.4% Zn, 131 g/t Ag<br>***(iii) Magno Mid***: 77 100 mt at 9.43% Pb, 5.34% Zn, 258.5 g/t Ag<br>***(iv) Magno W:*** 200 487 mt at 5.4% Pb, 3.4% Zn, 198.8 g/t Ag<br>***or Total***: 488 510 mt at 5.3% Pb, 4.46% Zn, 168 g/t Ag<br>(C J Bloomen, Shell Internal Report 1981) | These estimates were made following 1980–81 drilling. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 355 | WINDY (BALSAM)<br>Shell Can Res L<br>104 P/5<br>59°21′ 129°52′ | Skarn zones in metasedimentary rocks near felsic intrusives contain scheelite, powellite and mo as disseminations and veins. | **1978–81**: geochem and geoph surveys, dd. | ***(i) Kuhn zone:*** dd ind and inf: 409 300 mt at 0.48% $WO_3$, 0.134% $MoS_2$ and an additional 78 700 mt at 0.50% $WO_3$.<br>***(ii) Dead Goat zone:*** dd ind: 100 900 mt at 0.49% $WO_3$<br>***(iii)*:** 26 700 mt at 0.39% $WO_3$, 0.16% Cu in a pod 20 m below main skarn zone<br>(BC GF, 1988, p 335) |  |
| B.C. 356 | HASKIN MTN SE<br>(JOEM, RAIN, DAKO)<br>Della ML<br>104 P/6<br>59°19′55″ 129°28′20″ | Py, sph, cp and gal as replacement lenses and disseminations in skarn zones in Lower Cambrian Atan Group limestone along contacts with chert, argillite, graphitic dykes and sills, adjacent to Eocene Mt Haskin Stock. | **1906–09**: claims staked, assessment work.<br>**1969–76**: u/g work in two adits, dd. | 250,000 at 9.4% combined Pb–Zn, 0.1% Cu, 1.45 oz/t Ag ***1969***<br>(NM 25/12/69) | Estimate based on trenching and 4 ddh. Located on SE side of Haskin Mtn. |
| B.C. 357 | JOE (IRON CAP)<br>Gulf Titanium L<br>104 P/6<br>59°17′40″ 129°25′30″ | Gal, sph, asp and py in qtz vein in fault zone cutting Lower Cambrian Atan Gp qtzite, lst, dolomite. Vein avgs 1.5m in width and has been traced along strike for 170m. | **1949**: trenching.<br>**1956**: dd 1,498′ in 5 holes.<br>**1969–71**: geoph and geochem surveys, dd 1,195′ in 2 holes.<br>**1981**: geoph and geochem surveys. | Ind: 40,000 at 6.4 oz/t Ag, 5.5% Pb, 4.14% Zn plus 40,000 inf at same grade ***1956***<br>(J Richardson, 1956, as quoted by J Kruzick 14/02/80 – in VSE SMF 03/12/80, Gulf Titanium Ltd) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| B.C. 358 | McDAME BELLE<br>D Baxter (in 1980)<br>104 P/6<br>59°16'18" 129°22'20" | Gal and sph as massive lenticular replacements parallel to bedding, as fracture fillings crossing the bedding and as disseminations in skarn zones. Host rock is Atan Group limestone and dolomite with minor interbeds of argillite. | **1900**: short adit driven.<br>**1963–65**: EM survey, dd.<br>**1980**: geoph and geochem surveys.<br>**1985**: geochem survey by Colony Pacific Expls L. | ***(i) Cariboo zone***:<br>100,000 ind at unstated grade, ***incl*** 30,000 at 8.6 oz/t Ag, 3.6% Pb, 3.0% Zn, 0.35% Cu ***1965***<br>***(ii) Yellowjack zone***:<br>6,000 at 7.5 oz/t Ag, 4.2% Pb, 1.2% Zn, 0.2% Cu ***1965***<br>(BC RMM 1965, p 15) |  |
| B.C. 359 | WINDY CRAGGY<br>Geddes Res L<br>114 P/12<br>59°44' 137°45' | Host rocks are Upper Triassic volcanic flows and argillite sediments. Massive sulphides, indicated to date in a North and a South zone, consist of po, py and cp. Cobalt values correlate with the po. A zone of enhanced Au values appears to be an envelope horizon lying conformably below the South zone. A Zn–bearing zone is indicated on the east side of the north end of the deposit. | **1960, 1965**: dd.<br>**1974–75**: EM and mag surveys.<br>**1981–83**: geoph survey and dd.<br>**1987–88**: access adit driven 6,076', drifting, cross-cutting, dd, metallurgical tests.<br>**1989**: u/g dev, dd, pre-feasibility study. | Prob, poss:<br>111 500 000 mt (diluted) at 1.7% Cu, 0.2 g/mt Au, 3.6 g/mt Ag, 0.08% Co, using a 1% Cu cut–off grade<br>(Geddes Res L, Press Release 8/06/89) | O/p potential for part of the deposit. |

# YUKON
# TERRITORY

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| Y.T. 1 | MEL<br>Breakwater Res L<br>Barytex Res Corp<br>95 D/6<br>60°21'05" 127°24'15" | Cambro–Ordovician carbonates and argillaceous sediments form overturned W limb of a broad syncline. A sheared and brecciated mineralized zone 10' to 40' wide occurs at limestone phyllite contact. Baritic, limy shale contains disseminated sph, gal and minor py in a lens–shaped body. | **1967**: claims optioned to Newmont Mng Corp sulphides exposed.<br>**1973–81**: trenching, geol, IP and gravity surveys, soil sampling, metallurgical test, dd, bulk sampling, environmental survey.<br>**1984–85**: mapping, prospecting, dd, airport, road construction.<br>**1987**: dd.<br>**1989**: optioned to Barytex Res Corp. | Dd ind: 6,150,000 at 1.92% Pb, 6.63% Zn, 49.64% barite<br>(GCNL, 13/05/87) | Property in Coal R area 80 km NE of Watson Lake; deposit tested to depth of 400'–600' in 1975 drilling; third zone discovered in 1984; dd by BP Mnrls Selco Div in 1985. |
| Y.T. 2 | McMILLAN (QUARTZ LAKE)<br>Noranda Expl CL<br>Asarco Expl C Can L<br>95 D/12<br>60°32' 127°50' | Stratabound lead-zinc-silver in tabular bodies, lenses and disseminations in qtzite and argillite of the Proterozoic Mine Group. Sulphides are mainly py, gal, sph, minor asp, boulangerite, tetrahedrite and cp; some siderite gangue. | **1892, 1930**: discovered and rediscovered.<br>**1949–56**: geol surveys, trenching, dd.<br>**1967–72**: IP and geochem surveys, dd.<br>**1976–77**: optioned by Noranda: staking, geochem, EM and gravity surveys, dd.<br>**1980–81**: dd, gravity, EM and geol surveys. | ***Main zone***: 1 100 000 mt at 8.32% Zn, 4.13% Pb, 61.7% g/mt Ag<br>***South zone***: 400 000 mt at 1.72 Zn, 9.34% Pb, 214 g/mt Ag<br>***1982***<br>(DIAND, YEG 1982, p 74) | Property SW of Quartz L about 80 km NE of Watson Lake. |
| Y.T. 3 | PORKER (HYLAND JV)<br>Silverquest Res L<br>95D/12<br>60°31' 127°51' | Au in qtz–calcite veins, breccia, graphitic shear zones cutting weakly metamorphosed ls, phyllite and qtzite of Hadrynian and/or Lower Cambrian age. Mineralization is accompanied by intense carbonate and silica alteration in a 2 300 m long and 450 m wide zone. | **1954**: geoph and geochem surveys, tr.<br>**1973–75**: geoph and geochem surveys, dd.<br>**1984–87**: geochem surveys, tr.<br>**1988**: geoph surveys, dd. | Potential to host 6 750 000 mt at 2.0 g/mt Au<br>(GCNL, 6/01/89) | Located at Hulse (Quartz) Lake some 65 km NE of Watson Lake. Near surface oxidized material suitable for o/p mining. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| Y.T. 4 | HUNDERE (MICA)<br>Hillsborough Res L<br>Curragh Res Inc.<br>105 A/10<br>60°31'20" 128°52'45" | Massive sph and gal in skarn zones as replacement bodies in Lower Cambrian limestone. Three overlapping flat–lying zones (Upper, Middle and Lower), 10' to 78' thick, at less than 600' depth. | **1960–63**: expl, access road, trenching dd.<br>**1966**: mapping, trenching, geochem, geoph.<br>**1979**: trenching, sampling, dd.<br>**1980-82**: soil sampling, dd<br>**1984–85**: mapping, geochem soil sampling, trenching, sampling, dd; airborne EM and mag survey.<br>**1986–89**: dd. | Dd ind and inf geological: 5 216 000 mt at 13.3% Zn, 5.3% Pb, 64 g/mt Ag ***1988*** (Canamax Res Inc. 1988 AR) | Property 53 km N of Watson Lake. Reserves in 3 zones. |
| Y.T. 5 | BAILEY<br>Can Tungsten Mng Corp L (c 1980)<br>105 A/15<br>60°47'00" 128°50'50" | Pyroxene skarn carrying po, cp and scheelite developed at the contact between Cretaceous granodiorite and Devonian–Mississippian limestone. | **c 1966**: discovery.<br>***1971–77***: staking, trenching, sampling, airborne mag and EM survey, dd.<br>**1982**: legal survey. | Prov: 405 454 mt at 1.00% $WO_3$ ***1980*** (DIAND), YEG 1979–80, p 140) | Property 80 km N of Watson Lake; Cu averages less than 0.1% but can reach 0.25% Cu in places. |
| Y.T. 6 | FIDDLER<br>Pan Ocean Oil L<br>Amax Mnrls Expl (in 1981)<br>105 B/1<br>60°08'05" 130°25'57" | On Fiddler West and Main showing, en échelon qtz–greisen veins cutting Cambrian chloritic mica schist and limy phyllite. Mineralization consists of wolframite, gal, cassiterite, scheelite, fluorite, stannite, sph, cp, py; on E showing scheelite in qtz–phyllite breccia. | **1943**: discovery.<br>**1951–53**: stripping, trenching, sampling adit, 50 tpd mill.<br>**1961–71**: mapping, stripping, trenching, geochem.<br>**1980–81**: dd; best section is 38 m of skarn assaying 0.067% $WO_3$ | 1.1' × 100' at 8.45% $WO_3$<br>***1951***<br>(D C McKechnie 18/09/51 for Chillicopper Corp L ***in*** Prospectus 28/09/51) | Property 80 km W of Watson Lake; a 50 tpd mill operated for a short time but concentrate was too high in lead to be acceptable; assay of a mineralized sample revealed 3.2 oz/t scandium. East zone about 700' × 7–14' with 130 vertical feet exposed on surface, assays to 0.54% tungsten. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| Y.T. 7 | LOGTUNG<br>Regional Res L<br>105 B/4<br>60°00'45" 131°36'37" | Disseminated W–Mo mineralization largely in stockwork of qtz veins and fractures centred on large felsic dyke related to a Cretaceous qtz monzonite stock, also in larger qtz veins, quartz porphyries, felsite dikes and in skarn beds. The deposit contains scheelite, mo, powellite with accessory sulphides, fluorite and beryl. | **1977–78**: optioned to Amax Expl Inc; geol mapping, geochem soil survey, dd, mag and IP surveys, metal-lurgical studies.<br>**1979–80**: dd, bulk sampling for metallurgical tests from a 1,600' decline driven during 1980.<br>**1981**: metallurgical and environmental studies. | Dd–ind and inf: 254,000,000 at 0.104% $WO_3$, 0.050% $MOS_2$, o/p material ***1983*** (TSE LS 20/07/83, Canamax Res) ***or*** Mineralized reserves of 300 000 000 at 0.095% $WO_3$, 0,045% $MoS_2$ (Regional Res, 1987 AR) | About 152 km W of Watson Lake at Yukon–BC border |
| Y.T. 8 | JC (VIOLA)<br>Cominco L (in 1980)<br>Dome Ms L (in 1980)<br>105B/4<br>60°11'35" 131°41'50" | Devono–Mississippian carbonate rocks have been altered to a tin–bearing hedenbergite–diopside skarn in the contact zone of an intrusive quartz monzon-ite of the Mid–Cretaceous Seagull Batholith. Tin mineralization consists of malayaite, stannite, stanniferous tetrahedrite and cassiterite. | **1967–74**: tr, sampling, dd for copper, zinc, silver.<br>**1977–81**: geochem survey, tr, dd on tin showing. | Poss dd ind: 1 250 000 mt at 0.54% Sn (CIM Spec Vol 37, p 266, 1983) | About 160 km W of Watson Lake. |
| Y.T. 9 | LOGJAM SILVER<br>(BARB–LOG)<br>AMP Expls & Mng<br>CL<br>105 B/4<br>60°01'20" 131°36'40" | Asp, py, gal, sph in qtz veins in a fractured and silicified sill–like diorite body. the mineralized veins consist of massive to disseminated po–arsenopyrite–sph–gal in a qtz–calcite gangue. | **1944–46**: discovery, dd.<br>**1961–67**: restaking, trenching: two adits driven 975' and 720'. U/g dd, drifting, crosscutting.<br>**1979–81**: trenching, sampling, reopened adit, drifting.<br>**1986–87**: drifting and dd. | Prob: 77,000 at 11.4 oz/t Ag, 0.088 oz/t Au ***plus*** an equivalent tonnage possible ***1980*** (GCNL 30/01/80) | Property near the head of Logjam Creek, about 280 km by road W of Whitehorse. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 10 | HART (CMC)<br>Silver Hart ML<br>105 B/7<br>60°20'00" 130°42'20" | Fault controlled ephithermal vein system where high-grade silver mineralization is contained in qtz veins and a silicified zone where manganiferous gossans occupy a NE striking fault and replace ls beds in L. Cambrian schist and carbonates at the eastern margin of the Cretaceous Cassiar Batholith. | **1947**: initial staking.<br>**1971**: restaking, mapping, soil sampling, pitting.<br>**1980–81**: restaking, pitting, sampling, trenching.<br>**1984–86**: trenching, sampling, dd; driving adit, raising.<br>**1987–88**: fracture analysis study, tr. dd, feasibility study. | Prov, prob; 107,000 at 29.94 oz/t Ag, and C 1.4% Pb, 3.8% Zn (Hart Silver Ms L, 1987 AR) | West of Meister Lake, 110 km WSW of Watson Lake. |
| Y.T. 11 | LOGAN<br>Total Energold Corp.<br>Fairfield Mnrls L<br>105 B/9<br>60°30'30" 130°28' | Zn–Ag–bearing qtz veins, stockworks and brecciated and silicified zones in highly altered and andesite dyke rocks near the contact of Cambrian meta-sediments with the Cretaceous Cassiar batholith. The mineralization is contained in a tabular fault–bounded body 45.7 m to 137.2 m wide which dips 70° to the NW. | **1979–84**: geochem and geoph surveys, tr.<br>**1986–88**: dd on Main zone, geoph and geochem surveys over East and West zones, metallurgical testing. | Geological 13,500,000 at 6.17% Zn, 0.77 oz/t Ag at a 2.0% Zn cutoff (Total Energold Corp, 1988 AR) | Upper portion of the deposit has o/p potential. Located some 110 km NW of Watson Lake and 38 km north of the Alaska Highway. |
| Y.T. 12 | RED MOUNTAIN<br>Tintina ML (50%)<br>Amoco Can Petr CL (50%)<br>105 C/13<br>60°59' 133°45' | Dis mo associated with qtz stockwork core within an altered Cretaceous qtz monzonite stock. Drilling has indicated continuous mineralization within block 1 219.2 m × 426.7 m to depth in excess of 914.4 m. | **1967–69**: airborne mag, rad and EM surveys, soil geochem, dd.<br>**1978–82**: Amoco option, surface work, IP survey, dd; metallurgical testing. | 200,000,000 + at 0.167% $MoS_2$ (0.10% cut–off) ***includes*** 23,478,840 at 0.293% $MoS_2$ (0.25% cut–off) ***1985***<br>(NM 20/06/85, p 14) | Property at Slate (Red) Mtn 80 km ENE of Whitehorse; possible large tonnage o/p or u/g by large–scale block caving methods via adit. In 1980, hole 19 intersected 1,712' averaging 0.15% $MoS_2$. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 13 | ARCTIC CARIBOU<br>(BIG THING)<br>Rex Silver ML (in 1987)<br>105 D/2<br>60°05'15" 134°41'30" | NE striking gold and silver–bearing qtz veins cut Lower Tertiary granodiorite. The vein structures are commonly bordered by Mo–arsenopyrite rich selvage zones of altered granodiorite. Sulphide lenses and shoots in the vein consist of molybdenite–py–arsenopyrite–sph–gal, minor cp and very rare stibnite. | **1905–16**: expl, inclined shaft, adit, 4 levels, some hand–sorted shipments.<br>**1936–37**: surface trenching.<br>**1965–69**: trenching, 2 new adits, surface and u/g dd, 300 tpd mill operated June 1968–Oct 1969.<br>**1975–76**: some u/g rehabilitation, small tonnage stockpiled. | Prov–prob: 82,150 at 0.39 oz/t Au, 9.6 oz/t Ag ***plus*** 200,000 possible<br>***1984***<br>(Rex Silver ML, 1984 AR)<br>***or*** 9 072 mt at 8.9 g/t Au, 309 g/t Ag<br>(DIAND YE 1987, p 112) | Property 10 km S of Carcross; adits between elevation 5,100' to 5,600'.<br>Prod 7,700 oz Au, 207,000 oz Ag from 56,000 milled 1968–69. |
| Y.T. 14 | VENUS<br>United Keno Hill ML<br>105 D/2<br>60°01'25" 134°37'40" | Gold and silver–bearing coarse qtz–carb veins, traced for 6,000' on surface, cut andesite and andesite breccia of the Cretaceous Hutshi Group. Veins carry irregular bands and lenses of py, asp, gal, sph and minor cp. The ore shoots comprise 20% of the vein and exhibit a vertical zonation of mineralization. | **1901–63**: discovery, intermittent expl and u/g work.<br>**1966–71**: u/g dev, 2 main adits, 5 levels, 400' vertical depth; milled c 60,000 tons in 1970–71; company (Venus ML) placed in receivership.<br>**1979–81**: optioned by United Keno Hill ML in mid–year; rehabilitated old workings, metallurgical testing, erected 100 tpd mill 6 mi S of mine in BC, small tonnage mined.<br>**1983–84**: u/g drifting and raising outlined new high–grade shoots; dd.<br>**1988**: rotary percussion drilling on adjacent Joe Petty vein. | 68,000 at 0.32 oz/t Au, 8.9 oz/t Ag, 2.5% Pb, 1.5% Zn (to 5' min mining width) ***plus*** 13,400 at 0.17 oz/t Au, 4.3 oz/t Ag, 1.3% Pb, 0.7% Zn stockpiled at Venus mill site<br>***1984***<br>(United Keno 1984 AR) | Property at Tagish Lake about 20 km SSE of Carcross; the major operating problem during 1970–71 was dilution due to narrow vein widths. Just after completion of new mill operations suspended in 1981 due mainly to decrease in precious metal price. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 15 | **BECKER–COCHRAN**<br>Berglynn Res Inc<br>105 D/3<br>60°11′ 135°13′ | Lenses of massive stibnite in qtz gangue in 8′ wide pyritic shear zone at southern margin of a rhyolite porphyry plug of Eocene age. | **1893**: discovery.<br>**1914–15**: some u/g dev.<br>**1951**: some u/g dev.<br>**1964–67**: bulldozer stripping, surface mapping and sampling, bulk sample tested in Ottawa, u/g work from 3 adits, IP survey.<br>**1973–76**: restaking, soil sampling, prospecting, evaluation of gold records, geol mapping, EM survey, dd.<br>**1982–84**: geochem survey, trenching, sampling; clearing adit, u/g sampling and mapping, dd.<br>**1986–87**: geochem survey, u/g rehabilitation in no. 3 adit, tr, dd. | Prob–poss: 140 000 mt at 4% Sb ***1974***<br>(DIAND, YEG 1983, p 160) | Property on E side of Carbon Hill about 24 km w of Carcross. |
| Y.T. 16 | **SKUKUM CK (MOUNT REID)**<br>Skukum Gold Inc<br>105 D/3<br>60°10′30″ 135°24′ | Au–Ag occur in mesothermal qtz veins and qtz–sulphide breccia associated with rhyolite and andesite dykes along major fault zones in Cretaceous qtz monzonite. Au–Ag bearing mesothermal qtz veins and qtz–sulphide breccia along a major fault zone that crosscuts Tertiary Skukum Group felsic–to–intermediate volcanics and Cretaceous qtz monzonite. | **1923–28**: tr, short adit and shallow shafts.<br>**1937**: new adit.<br>**1965**: tr.<br>**1973–74**: geochem survey.<br>**1985**: geochem survey, tr, discovery hole drilled.<br>**1986–88**: dd, u/g exploration, preliminary metallurgical tests, prefeasibility study, new adit at 1 350 m elevation. | Prov, prob, poss: 882,000 at 0.221 oz/t Au, 8.02 oz/t Ag.<br>***or*** mineable: 513,000 at 0.221 oz/t Au, 8.0 oz/t Ag using 34% dilution, at 0.15 oz/t Au equivalent cutoff grade, and a 1.5 m minimum mining width<br>(Omni Res Inc, News Release, 24/02/89). |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 17 | WHITEHORSE COPPER BELT<br>Hudson Bay Mng & Smg CL (Whitehorse Copper Division)<br>105 D/10, 11<br>60°34'30" 134°53'10"<br>to<br>60°40'30" 135°07'00" | Copper deposits in calc–silicate–magnetite skarns along the irregular contact between Triassic Lewes River sediments and Cretaceous granodioritic to dioritic rocks of Coast Intrusions. The deposits contain bornite, cp, minor chalcocite, native Cu, tetrahedrite and molybdenite. | **1897–1929**: discovery, intermittent dev and mng from shallows shafts at several deposits.<br>**1948–62**: geol, mag surveys, dd, trenching.<br>**1963–79**: by 1963 New Imperial ML (Whitehorse Copper ML in 1972) acquired all the properties in the copper belt; prod from 6 o/ps 1967–71 suspended due to low metal price, resumed end of 1972 at Little Chief u/g mine. Exploration on copper belt continued with surface expl, mag, EM, IP, geochem and dd.<br>**1980**: most of the 52 holes drilled were on the Cowley Park South zone.<br>**1981**: mng ceased at year-end with exhaustion of economic reserves at Little Chief mine.<br>**1985–88**: dd in several holes on Cowley Park, Kodiak Cub, Black Cub, and Little Chief zones, in part to test for Au potential.<br>**1989**: Aurora Gold L, optioned claims in the central part of the Copper Belt, including the Arctic Chief, Best Chance, and Grafter deposits. | ***(i) Cowley Creek***: 975,548 at 0.89% Cu, 0.09% $MoS_2$, 20¢/t Au and Ag, 15% dil ***1972***.<br>***(ii) Cowley Park South***: 181 818 mt prov at 2.3% Cu ***1980***<br>***(iii) Keewenaw***: 223,387 at 1.06% Cu, 96¢/t Au and Ag, 15% dil ***1972***<br>***(iv) Gem***: 688,994 at 1.01% Cu, 25% dil ***1972***<br>***(v) Kodiac Cub***: 63,000 at 1.18% Cu, 15% dil ***1972***<br>***(vi) Black Cub***: 21,964 at 1.25% Cu (South Pit) and 172,000 at 0.82% Cu (North Pit), 15% dil ***1972***<br>***(vii) Best Chance***: 492,737 at 0.71% Cu, 20% Fe, 26¢/t Au and Ag, 15% dil ***1972***<br>(Whitehorse Copper ML, 1971 AR; A C Skerl 25/11/65 ***in*** TSE List Stat 2243, New Imperial ML, 1966; DIAND Geol & Expl 1979–80, p 4) | The deposits listed are near–surface deposits. Tonnages and grades are mostly of the proven–probable category; $MoS_2$, Au, Ag and Fe values from 1965 report of A C Skerl may not be exact for tonnage figure which was reported in 1972.<br>Substantial expl has been carried out on the copper belt in recent years with little success; deep drilling since 1977 tested the possibility of u/g ore in areas of known surface deposits. Whitehorse Copper ML was absorbed by Hudson Bay Mng & Smg CL in 1979. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 18 | STORMY GROUP<br>Rio Alto Expl L (25%)<br>E & B Expls Inc (75%)<br>105 F/7<br>61°29'50" 132°48'15" | Mo and scheelite in a wedge–shaped skarn in Lower Cambrian–Hadrynian limestone–phyllite near the north contact of the Cretaceous Rose Lake granodiorite stock. | **1955–60**: discovery, trenching, adit, drifts and crosscuts, dd.<br>**1967–68**: bulldozer trenching.<br>**1975–77**: restaking; stream sediment program by Noranda.<br>**1979–80**: bulk sampling, mill testing, assaying, mapping, soil geochem, mag and EM surveys, dd. | Prob: 15,000 at 0.73% $MoS_2$ and 17,000 at 1.05% $WO_3$ in two zones c ***1959***<br>(WM April 1969, p 37) | Property at head of Upper Sheep Creek, 36 mi SSE of Ross River. "The Mo and W zones do not completely coincide and no combined grade calculation was made" (WM April 1969, p 37). |
| Y.T. 19 | STUMP (KEY) (KETZA KEY)<br>Aigner Holdings L and Canamax Res Inc (in 1987)<br>105 F/9<br>61°31'50" 132°09'30"<br>("A" Vein) | Massive gal, tetrahedrite, sph, po, py in siderite qtz gangue along vein breaks cutting silty ls and argillaceous rocks of Cambro–Ordovician age. | **1947–61**: discovery, staking, expl by short adits; shipped 15 tons Ag–Pb ore from Key 3 A vein in 1961.<br>**1964–69**: geochem soil testing, stripping, trenching, dd, Key 18 zone discovered 1968: several adits, some u/g dev.<br>**1978–82**: EM survey, some dd and u/g work; new adit on A–1 zone; prelim metallurgical testing.<br>**1986–87**: geoph and geochem surveys, tr, dd; no new economic mineralization found. | Ind: 51,290 at 26 oz/t Ag, 22.5% Pb in the A–1 (Stump) and Key 18B (Ketza Key) zones ***1983***<br>(Iona, VSE, FS 173/85) | Property along Ketza River, 45 km S of Ross River. |
| Y.T. 20 | GROUNDHOG (SILVER CREEK SHOWINGS)<br>Yukon Minerals Corp<br>105 F/10<br>61°38'40" 132°49'20" | Four sets of veins and stockworks consisting of gal–tetrahedrite–py–sph and siderite in massive qtz are scattered over a 1 km$^2$ area in Siluro–Devonian dolomites, quartzites and calcareous sandstone, which are crosscut by Cretaceous mafic dykes. | **1967–69**: trenching, geochem soil sampling, dd.<br>**1977–78**: surface expl, sampling, dd.<br>**1979–80**: small tonnage mined by o/p and shipped out by Silver Arrow Synd (option).<br>**1986–88**: rock tr, geoph survey, dd, bulk sampling, adit to explore veins 2 and 3. | Dd ind: 273 000 mt at 2.5% Pb, 5% Zn, 137.1 g/t Ag, 1.37 g/t Au, 500 g/t Cd<br>(DIAND, Yukon Mining and Exploration Overview, 1988, p 23) | – In veins 2 and 3. Property between Upper Groundhog Creek and Seagull Lakes 42 km SW of Ross River. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 21 | BARITE MOUNTAIN<br>H Versluce<br>105 F/14<br>61°50′ 133°01′ | Mineralization consists of more than 12 barite–bearing veins (1′ to 10′ wide) hosted by steeply dipping Siluro–Devonian carbonates and quartzites that have been thrust upon Mississippian shale/greywacke of the Earn Gp. | **1945**: discovery, staking.<br>**1963**: restaking, tote road, 3 tons barite mined.<br>**1981–82**: restaking, maping, sampling by C W Friday Construction L. | Proven: 50,000 tons of barite ***1945***<br>(GSC P 45–21, p 28) | Barite Mtn is near mile 118 on the Canol Road, 35 km SW of Ross River; grade of 99.2 and 99.7% $BaSO_4$ in two analyses, limited potential due to scattered narrow veins on steep mtn face (GSC, p 64–36, p 41). |
| Y.T. 22 | CAB (RISBY)<br>Imperial Mtls Corp<br>105 F/14<br>61°52′ 133°23′ | Two scheelite–diopside–pyrrhotite skarn zones occur near the contact between Lower Cambrian meta–sediments and a Cretaceous qtz–monzonite batholith. | **1968–71**: discovery, staking, geol mapping, channel sampling, geochem soil and silt sampling, dd.<br>**1978–82**: geol mapping, trenching, chip sampling, geochem and surveys, dd. | Dd–ind: 2 700 000 mt at 0.81% $WO_3$ (min mng width 3 m, 0.4% $WO_3$ cutoff) in 2 zones including a near surface zone of 500 000 tons at over 1% $WO_3$<br>(NM 08/07/82; CMH 1989–90, p 234) | Property 58 km WSW of Ross River. Under option by HBM&S since 1978. |
| Y.T. 23 | KONA (FYRE LAKE)<br>Welcome North Ms L<br>105 G/2<br>61°13′40″ 130°31′ | Py–po–cp and minor sph occur in nearly flat–lying qtz–mica and qtz–chlorite schists. The north showing consists of cp and sph diss in a dark green siliceous magnetite-chlorite iron formation enclosed in chlorite–qtz schist. | **1961**: geoph survey, tr, dd.<br>**1965–66**: geoph and geochem surveys indicated coincident anomalies; dd failed to explain the anomalies.<br>**1980**: geochem survey.<br>**1988**: significant discovery. | Ind: 2,000,000 at 1.05% Cu, 0.24 oz/t Ag, 0.025 oz/t Au<br>(CMH 1982-83, p 334) | Located at Fire Lake some 160 km NW of Watson Lake. Potential for a multi–million ton reserve grading in excess of 1% Cu and 1% Zn with zones grading 0.1 oz/t Au.<br>(Welcome North Ms L, 1988 Report to Shareholders) |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 24 | EAGLE<br>Tintina ML<br>105 G/3<br>61°08'30" 131°09'00" | The deposit consists of several (3) tightly folded mineralized layers of green-grey silicified Cambrian limestone and argillite that have been altered to hornfels and quartz–carbonate stringers. Mineralization, which is best developed at the crest of small anticlinal folds, occurs as irregular patches and massive bands of sph–gal–po, minor arsenopyrite and freibergite. | **1961–71**: discovery, trenching, sampling, adit, u/g dd and dev, soil and silt geochem surveys, geoph survey, surface dd.<br>**1980**: explor No 8 vein.<br>**1984**: prospecting, mapping trenching, sampling, dd.<br>**1987**: tr, dd. | Ind–inf: 100,000 at 20 oz/t Ag, 6% Pb, 10% Zn ***1980***<br>(NM 31/01/80, p 3) | Deposit 112 km SE of settlement of Ross River. |
| Y.T. 25 | MATT BERRY (BARB)<br>Barytex Res Corp<br>Pulse Res L<br>105 H/6<br>61°28'15" 129°25'00" | Mineralized layers/veins (containing diss to ms gal–sph–py and minor cp, with a qtz–siderite gangue) are associated with Devonian/Mississippian metasediments/phyllites and volcanics/qtz–chlorite schists that comprise the axis of a syncline. | **1930s**: rediscovered.<br>**1943**: explored by Cominco.<br>**1960–72**: surface expl, dd, IP, mag, EM and silt and soil geochem work.<br>**1977–80**: restaked, trenching, EM survey, dd.<br>**1981**: geol, soil and stream sediment geochem sampling.<br>**1987**: geoph and geochem surveys.<br>**1987**: geoph and geochem surveys. | Ind–inf: 588,000 at 3.0 oz/t Ag, 6.1% Pb, 4.6% Zn ***1977*** (plus 0.38% Sb, some Cd, over 6' ***1970***)<br>(Matt Berry ML, 1970 AR; Ikona C 08/07/77 for Sovereign Mtls Corp *in* VSE SMF 22/01/79) | Property at Frances Lake; a flat–dipping mineralized zone under deep overburden, open along strike and to depth. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 26 | HOWARDS PASS<br>Placer Dome Inc (51%)<br>Cygnus ML (49%)<br>105 I/6, 11, 12<br>62°28′ 129°10′ (XY)<br>62°33′ 129°33′<br>(Anniv) | The region lies within the "Black Shale" sequence of the Selwyn Fold Belt. The deposits, which are complex saucer–shaped bodies containing laminated ms (sph–gal–py), are hosted by the Lower Ordovician to Upper Silurian Howard's Pass Fm black graphitic, pyritic shale. The deposits represent synsedimentary exhalative (SEDEX) deposition of Zn and Pb sulphides within anoxic sub–basins at the base of the slope on the eastern edge of the Selwyn Basin. | **1968–77**: regional geochemistry, discovery of high–grade showings, staking, geol mapping, soil sampling, gravity survey, trenching, dd,metallurgical testing, building 50 mi all–weather road.<br>**1977–79**: dd.<br>**1980–81**: adit, 2 x–cuts dd on XY central zone; bulk sampling.<br>**1982–84**: metallurgical test. | ***(i) XY***: 59 000 000 mt dd–ind at 2.1% Pb, 5.4% Zn (includes 8 200 000 mt at 5.5% Pb, 10.6% Zn)<br>***(ii) Anniv***: 61 000 000 mt dd–ind at 2.1% Pb, 5.4% Zn ***plus***<br>360 000 000 mt inf at 7% Pb–Zn in XY, Anniv and OP deposits ***1982***<br>(Placer Dev L, written commun, Sept 2, 1982) | Property 160 km ENE of Ross River at NWT border, is up to 5 km wide with NW length of 42 km. Three main mineralized areas: XY basin at border; Anniv Basin, 22 km from XY; and OP area, 9 km from Anniv. Some parts of XY and Anniv may be amenable to o/p mng.<br>The deepest hole (1700′) drilled in the 1970s, in the central zone of the XY basin, was stopped in mnrl'n. |
| Y.T. 27 | PIKE LAKE<br>105 J/2<br>62°10′ 130°42′ | Po, asp, py, cp, tetrahedrite and minor amounts of bornite, sph, gal as disseminations and veinlets occur in an alteration zone in two steeply–dipping Tertiary (?) biotite granite dykes. | **1966–67**: airborne mag and EM, staking, ground mag, EM, IP, geol and geochem surveys, trenching, packsack dd.<br>**1978**: geol investigation.<br>**1981**: geol mapping, geochem sampling, dd. | Pot: 300 000 mt at 0.5% Cu and 62.2 g/t Ag ***1981***<br>(Cima Res L, 3rd Quarter Rept 1981) | The property contains an anomalous zone, over 3 km long; and where tested to bedrock indicates a porphyry–type Ag–Cu deposit that has o/p potential. |
| Y.T. 28 | GREW CREEK (CANYON)<br>Goldnev Res Inc<br>Noranda Expl CL<br>105K/2<br>62°03′ 132°52′ 40″ | Epithermal gold occurs in qtz-sericite alteration zones in felsic volcanic rocks of Tertiary age in the Tintina Trench. | **1967–68**: geoph surveys.<br>**1984–85**: tr and drilling.<br>**1987–88**: geoph and geochem surveys, dd.<br>**1989**: feasibility study. | Geological 852,000 at 0.260 oz/t Au, 0.98 oz/t Ag (cut and diluted) at a cut off grade of 0.058 oz/t Au<br>(GCNL 4/07/89) | Located some 25 km Northwest of Ross River. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 29 | DY<br>Curragh Res Corp<br>105 K/3<br>62°14' 133°02' | A sequence of banded and massive sulphide horizons from 20 to 200' thick between 1,800' and 3,000' below the surface; mnrl'n includes py, po, gal, sph, cp, barite in moderately dipping limb of a major antiform in Ordovician graphitic phyllite and qtzites. | ***1964–65***: airborne, mag and EM anomalies.<br>***1976–77***: deposit discovered by deep dd.<br>***1978–81***: dd. | Geol: 20 267 000 mt 5.7% Pb, 7.0% Zn, 82 g/t Ag, 0.95 g/t Au (cutoff 9.0% Pb–Zn) includes 11 049 000 mt at 6.7% Pb, 8.0% Zn, 100 g/mt Ag (cutoff 12.0% Pb–Zn) ***1982*** (IANA, YEG 1982, p 143; CMH 1985–86. p 127) ***or*** 21 100 000 mt at 5.5% Pb, 6.7% Zn, 84 g/mt Ag, 0.95 g/mt Au (Curragh Res Inc, Information Brochure, 1988) | The DY mineralized zone extends more than 5,000' along strike and is up to 1,500' wide; Cyprus Anvil Mng Corp sold prop to Curragh Res Corp in 1985; the DY is located 19 km SE of the Anvil mine and 3 km SE of the Vangorda deposit. Production could begin by 1999; underground mine. |
| Y.T. 30 | SWIM LAKE<br>Curragh Res Corp<br>105 K/3<br>62°12'50" 133°01'50" | Pb–Zn–Ag zone in a 20 million ton pyrite deposit, a tabular–like sulphide mass in Ordovician sericitic and graphitic phyllites. Sulphides avg about 50% of zone: py, sph, gal, po, marc and cp with minor asp, mag and tetrahedrite. Qtz and barite are common gangue mnrls. | **1963–66**: airborne mag, staking, ground mag, EM, SP and gravity surveys.<br>**1965–66**: dd.<br>**1973–75**: AEX Mnrls Corp option, dd.<br>**1979**: purchased by Cyprus Anvil.<br>**1980**: dd. | Geol: 4 750 000 mt at 3.8% Pb, 4.7% Zn, 42 g/mt Ag (cutoff 6.0% Pb–Zn), minor Cu and Au ***1982*** (DIAND, YEG 1982, p 143; Cyprus Anvil, 1978 AR) | Swim deposit is 10 km SE of Vangorda property; Cyprus Anvil Mng Corp sold prop to Curragh Res Corp in 1985. Probable metallurgical recovery problems because material is finer grained than that of the Anvil mine. |
| Y.T. 31 | CLEAR LAKE (SUE)<br>Getty Cdn Mtls (74%)<br>Essex Mnrls C (24%)<br>105 L/14<br>62°48' 135°00' | The Proterozoic to Paleozoic Anvil Range Group of rocks contains a stratiform, shale-hosted massive, pyritic sulphide body with some sph, gal and barite; the deposit represents a proximal exhalative deposit between a basal chert/tuff and a pyritic shale cap. | **1966–67**: staking, airborne and ground mag and EM surveys, dd.<br>**1974–79**: restaked as Sue; EM, mag and gravity surveys, soil sampling, dd.<br>**1980–84**: geol, soil sampling, gravity, EM, mag, dd. | 25,000,000 at 80% pyrite, sub–economic Zn, Pb, Ag 1979 (G Kent, Geoscience Forum, Whitehorse, Dec 1979) | Property along Tintina Fault, 96 km NW of Anvil mine; sulphide zone open at both ends along strike and to depth. Hole 79–19 intersected massive sulphides from 209.1 m to 221.0 m that assayed 18.37% Zn, 2.15% Pb, 64.8 g/t Ag. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 32 | LOOKOUT<br>M H Ewing (in 1980)<br>105 M/13<br>63°51'50" 135°52'30" | Massive sulphide in small pods and lenses along vein breaks in Lower Cretaceous qtzite, schist and intercalated greenstone lenses; mineralization includes gal, limonite and pyrolusite. | **1918–20**: 3 short adits, incline to 90' depth.<br>**1940s**: some prospecting and exploratory work.<br>**1964–66**: geochem prospecting, stripping, u/g rehabilitation, overburden dd.<br>**1979–80**: geol survey, soil sampling, trenching. | ***Middlecoff zone***: ***"A" vein***: 20' × 2' at 27.4 oz/t Ag, 0.7% Zn<br>***"B" vein***: 45' × 3.2' at 22.6 oz/t Ag, 18% Pb, 1.2% Zn ***1964***<br>(NM 24/12/64) | Property located on Mount Haldane. |
| Y.T. 33 | SHANGHAI<br>105 M/13<br>63°56' 135°39' | Ag–bearing vein zones cutting qtzite, schist and graphitic phyllite on opposite limb of anticline on which the Keno Hill veins are located. Sph, py, gal occur in irregular pods with qtz and calcite. | **1927**: staking<br>**1948–58**: shallow shafts and adits.<br>**1962–66**: stripping, adit, u/g dev and dd.<br>**1974–75**: geol mapping, stream and soil geochem, trenching. R Mooney.<br>**1983–84**: restaked by R Mooney and BJ Stewart. | ***(i)*** 170' × 8.2' at 1 oz/t Ag, 0.5% Cu, 0.4% Pb, 13.6% Zn<br>***(ii)*** 30' × 5' at 34.5 oz/t Ag, 8.2% Pb, and 7.2% Zn ***1966***<br>These are the best assays from drifting on the vein<br>(NM 10/03/66 and 07/07/66) | Property 10 km W of Elsa; main adit 250' below the prospect level intersected vein 330' from portal; vein drifted on for 2,000'. |
| Y.T. 34 | FORMO<br>Cons Rio Plata Res L<br>105 M/14<br>63°56'30" 135°22'00" | Irregular lenses containing sph, py and tetrahedrite in qtz siderite gangue within a vein in a fault zone cutting graphitic, qtz–mica schist and greenstones of Jurassic–Cretaceous age. The highest grade of mineralization occurs where the fault crosses and displaces a small greenstone body. | **1925–30**: expl, some high–grade mined.<br>**1948–49**: a little hand–cobbed ore shipped.<br>**1952–53**: 2 adits and u/g dev.<br>**1961–62**: shallow shaft and a little hand–sorted ore shipped.<br>**1973–75**: trenching, soil sampling, ground mag, EM, dd.<br>**1980–82**: adit rehabilitated; dd, perc drilling; a little ore mined.<br>**1986**: tr, sampling by Dawson Eldorado Ms L. | Proven–ind: 44,000 at 16 oz/t Ag, 6.9% Pb, 10.7% Zn ***1965***<br>(D D Campbell 10/11/65 in Peso Silver ML, 1965 AR) | Property on Galena Hill 8 km NE of Elsa. This deposit extends from surface to a depth of about 350'; it is the NE extension of the Hector–Calumet vein fault system. In 1986-87 under sub–lease to Dawson Eldorado Ms L. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 35 | MT HINTON<br>United Keno Hill ML<br>105 M/14<br>63°52′ 135°07′ | Forty–two narrow, longitudinal–type Ag–Au–bearing qtz veins occur as fracture fillings with lenses and pods of massive sulphides, chiefly gal, jamesonite, asp, py, minor sph and cp in Lower Cretaceous (?) Keno Hill qtzites. | **1920**: staking, trenching.<br>**1940**: restaking, 100′ adit.<br>**1966–68**: purchased by United Keno; trenching, soil sampling, overburden drilling, 25′ shaft.<br>**1979**: drilling on '5' vein.<br>**1984**: adit, x–cutting, sampling, drilling on 19′ vein. | ***No 21 vein***: 40 T/VF at 1.2 oz/t Au, 18.3 oz/t Ag<br>***No 24 vein***: 80′ × 1.6′ at 0.5 oz/t Au, 45.1 oz/t Ag<br>***c 1968***<br>(AC 105 M(52), 1975) | MT Hinton is 11 km SE of Keno Hill. Adit driven adjacent to No 19 vein; new vein (No 35) outlined by surface mapping in 1984. |
| Y.T. 36 | PADDY–CAROL<br>Can Tungsten Mng CL<br>105 M/14<br>63°56′52″ 135°22′45″ | Gal, sph, py, freibergite, minor cp with qtz siderite gangue in vein system exposed for 1,200′ at contact of Cretaceous greenstone sill with the Jurassic (?) Lower Schist unit. | **1964–65**: stripping, ground sluicing, short adits.<br>**1967–69**: purchased by Silver Spring ML; trenching, and sampling, u/g work.<br>**1971**: adit, drifting, u/g dd.<br>**1975**: trenching, dd.<br>**1978**: 250 tons ore custom milled at United Keno Hill ML.<br>**1981**: trenching, adit reopened. | 4,000 tons with recoveries after milling of 32.5 oz/t Ag, 168 lbs/t Pb<br>***1978***<br>(J R Dundas 14/06/78 for Silver Spring ML *in* VSE SMF 17/08/78) | Property on N face of Galena Hill below Elsa–Keno road. |
| Y.T. 37 | BARITE (MOOSE)<br>Nuspar Res L<br>105 O/1<br>63°04′ 130°12′ | Two en échelon steeply dipping zones of bedded barite in Devonian–Mississippian black shale/argillite with minor chert and sandstone/chert–pebble conglomerate. | **1972–74**: staking, trenching, chemical analysis of samples.<br>**1976–77**: option by Yukon Barite CL, trenching, sampling.<br>**1978**: dev and marketing studies.<br>**1982**: work done on access and on grinding plant. | Ind: 3,000,000 at 84% $BaSO_4$, 12.14% $SiO_2$<br>***1974***<br>(Yukon News 12/12/74; DIAND EGS 1975–79, p 22) | Property about 19 km SW of MacMillan Pass. Work by Yukon Barite CL indicated a zone of barite grading 92% $BaSO_4$ of direct shipping grade potential. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 38 | JASON<br>Abermin Corp (62%)<br>Western Canadian Mng Corp<br>Ogilvie Mnrl Corp<br>105 O/1<br>63°09' 130°15' | SEDEX type stratiform massive gal and sph with po, py, chert and barite on limbs and nose of folded and faulted syncline in mid–to–upper Devonian Earn GP shales and turbidites. Mnrl'n in at least three separate zones (Main, South, End) in chert conglomerate and clastic sediments. | **1974–78**: staking, geol, geochem and gravity surveys, dd.<br>**1979–80**: optioned to Pan Ocean Oil L; geoph, geochem, dd.<br>**1981**: dd.<br>**1985–86**: preliminary feasibility studies. | Ind, inf: 15,500,000 at 7.09% Pb, 6.57% Zn, 2.33 oz/t Ag (Aberford Resources, 1982 AR) ***or*** mineable 10,100,000 at 7.43% Pb, 6.52% Zn, 2.14 oz/t Ag (CMH, 1989-90, p 25) | In South, Main and End zones. In 1986 a feasibility study of joint development of Jason and Tom deposits. The Jason deposit lies west of the Canol Road, 5 000 m west of the Tom deposit. |
| Y.T. 39 | TOM<br>Hudson Bay Expl & Dev CL<br>Cominco L<br>105 O/1<br>63°10' 130°09' | Tom East and Tom West zones occur on opposite limbs of anticline; stratiform Zn–Pb–Ag–barite mnrl'n hosted by black clastic rocks of Middle–Upper Devonian Earn GP; rocks and deposit complexly folded and faulted.<br>Mnrl'n includes barite, sph, gal, witherite, chert, cp, tetrahedrite, boulangerite and sulphosalts. A large funnel–shaped area of vein and breccia rock, containing py–gal–sph–cp–arsenopyrite and found underlying West Zone stratiform mineralization, is postulated as the "Feeder Vent" to the TOM SEDEX deposits. | **1951–58**: discovery, surface expl, dd.<br>**1967–70**: mapping, prospecting, adit, drifting, surface and u/g dd.<br>**1978–79**: dd.<br>**1980–81**: surface dd, u/g dd, adit (decline), drifting; engineering and environmental studies.<br>**1985–86**: preliminary feasibility study.<br>**1988-89**: dd. | Prov–prob: 10,800,000 at 7.54% Zn, 6.37% Pb, 2.15 oz/t Ag ***1982 plus*** 10,000,000 at 4.6% Zn, 0.9% Pb, trace Ag ***1972*** (HBM&S) 1983 AR (see 10K) and DIAND EGS 1979–4, p 3) | Property 16 km SW of MacMillan Pass and about 130 mi E of Ross River along the North Canol Road.<br>A $10 million u/g program (1980–82) to establish additional reserves below the areas previously drilled. In 1985–86, studied feasibility of developing Tom and Jason deposits as a combined operation. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 40 | TEA<br>Yukon Barite CL<br>105 O/2<br>63°02' 130°37' | A barite horizon, at least 90 m thick in an anticlinal structure at the base of the Devono–Mississippian Earn GP. The main zone contains interbedded barite, baritic grey shale, calcareous witherite, and baritic cherty ls. | **1975**: discovery, geol mapping, geochem soil sampling, trenching bulk sampling.<br>**1976**: Yukon Barite CL option, geol mapping, stripping, bulk sampling, road built.<br>**1977**: quarried 10 000 mt barite and shipped to mill site at Ross River.<br>**1980**: Millchem Inc mined 900 mt of barite.<br>**1981**: dd, bulk sampling.<br>**1982**: mined 10,000 t and shipped to Ross River.<br>**1985-86**: bulldozer trenching, geochem sampling, dd. | 267,342 tons of direct shipping barite (sp gr 4.24)<br>(Yukon Barite CL, Oct 1976, Feasibility Rept, DIAND AF) | Deposit 27 km SW of Tom property and 5 mi N of Canol Road; equip-ment for mill was delivered to site at Ross river to process barite into drilling mud to fill contracts made with companies drilling for oil in the Beaufort Sea. The plant was never assembled due to disputes within the company. |
| Y.T. 41 | CATHY<br>Baroid of Can L<br>105 O/7<br>63°16' 130°37' | Black shale with 1 to 30 m thick interbedded horizons of barite and lime-stone within faulted sections of the Devono–Mississippian Earn Gp that have been thrust over the Silurian Road River Fm. | 1975–76: staking, geol and geochem, sampling, metallurgical work, and dd.<br>1980: dd. | 500,000 tons of commercial grade barite (sp gr 3.8–4.4) ***1980***<br>(Tempelman–Kluit, D 1/11/80 DIAND Ykn Mnrl Ind, 1980 p 16 and DIAND AF 090206, 1977) | Property 170 km NE of Ross River and 19 km W of Yukon–NWT border. |
| Y.T. 42 | HORN<br>Cdn Indst'l Gas & Oil L<br>(in 1970)<br>105 O/12<br>63°42'15" 130°31'30" | A qtz–carb vein complex with po, some py and minor cp in sheared and fractured zones in Tertiary volcanics capping Ordovician–Silurian sediments. | **1968–70**: staking, geochem, prospecting, geol mapping, sampling. | Poss: 1,250,000 at unstated Cu grade ***1970***<br>(DIAND F 060182, 1970) | Property in Rogue River area about 208 km E of Mayo. Sampling across 30' assayed 0.21% Cu and another sample across 5' assayed 0.49% Cu. Cdn Indst'l Gas & Oil was merged into Norcen Energy Res L in 1975. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 43 | ANKERITE VERA<br>International Prism Expl L<br>106 C/5<br>64°18.5' 133°44.9' | Gal, sph, argentiferous tetrahedrite, minor cp, py in gangue of dol, siderite, qtz form lenses and shoots along steeply–dipping tabular breccia zone within a vein–fault system in a dolomite sequence of the Helikian Gillespie Gp. | **1977–80**: geochem, prospecting discovery of Ag–Pb zones, trenching, sampling, gravity survey, dd.<br>**1981**: dd, adit, x–cuts; bulk sample for metallurgical testing.<br>**1982–85**: mapping, geochem sampling, trenching, dd.<br>**1988**: dd. and environmental studies for access road. | Dd–ind: 500,000 + at c 7.5 oz/t Ag over 19.3' width or 250,000 to 300,000 at 15 oz/t Ag over 9.8' width ***1985*** (Intl Prism, SMF 110/85, VSE 27/08/85)<br>***or*** 949 640 mt at 2,67% Pb, 2.62% Zn, 324 g/t Ag (Vera & Val combined.) (Mining Review, May/June 1989, p 27) | Rusty Mtn area of Kathleen Lakes region; two shoots (East and West) within 700 m length, dd tested to 170 m depth; a tonnage figure in 1981 indicated deposit also contains 3.7% Pb–Zn. |
| Y.T. 44 | VAL<br>Intl Prism Expl L<br>106 C/5<br>64°16' 133°42.7' | The Val property consists of 9 known Ag–Pb showings with the Siltstone zone being 3 km NW of the South Hill zone. The basal grey dolomite of the Helikian Gillespie Gp hosts most the Val mineralization. At ***South Hill zone*** sph, gal, a little tetrahedrite, py, and jamesonite in crystalline dol gangue in fracture zones. The Big Red, Little Red and North Hill zones/showings are irregular shaped, discontinuous lenses of coarsely crystalline sph–gal in a qtz–ankerite gangue. The ***Siltstone zone*** is a gal rich fracture system in Lower Paleozoic argillite. | **1977**: mnrl discovery while prospecting geochem anomalies.<br>**1978–79**: trenching, geol and gravity surveys, dd.<br>**1980–81**: dd.<br>**1982–85**: prospecting, trenching, dd. | ***(i) South Hill zone***: 205,140 at 6–14% Pb–Zn, 6.04 oz/t Ag ***1981***<br>***(ii) Siltstone zone***: 22,000 at 26.7% Pb, 7.3% Zn, 30 oz/t Ag ***1981***<br>(Prism Res L, VSE SMF 8/03/83, p 18–19; NM 8/5/80, p 5) | Kathleen Lakes area 65 km NE of Keno Hill; the ***Big Red zone***, just NW of South Hill zone, has an inf 2 million oz Ag at 30 oz/t and assoc high Pb–Zn. (GCNL 16/09/85) |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 45 | GOZ CREEK<br>Fairfield Mnrls L<br>106 C/7<br>64°25'55" 132°31'00" | Sph (weathered to smithsonite in places), qtz, minor gal, py, boulangerite occur in flat–lying dolomitized carbonate strata of the Lower Cambrian Sekwi or Backbone Fm overlain by a shale unit. Types of mineralization are: breccia zones; fracture and vug fillings; disseminations in silica layers; and weathered zones. | **1973–75**: discovery, prospecting, staking, stream sediment sampling, geol work, dd, metallurgical testing.<br>**1977**: economic study. | Prov: 2,750,000 at 11% Zn mineable by open–pit (1:1 stripping ratio) ***1984***<br>(Fairfield Mnrls L, 1988 AR) | Property in Bonnet Plume River area about 128 km NE of Keno Hill. One mineralized bed about 25' to 40' thick was traced 4,400' along strike. Deposit considered subeconomic in 1977. |
| Y.T. 46 | PING<br>Suneva Res L and Newhawk GML (in 1979)<br>106 C/11<br>64°38'30" 133°14'00" | Two main showings of gal and sph in breccia and as pods in dolomite of the Hadrynian Keele Fm. | **1974–76**: staking soil geochem, geol mapping; dd to test IP anomaly; VLF geoph. | 100' × 18' at 17.8% Pb–Zn, some Ag, based on 3 trenches ***1976***<br>(NM 01/07/76) | Property in Corn Creek area of Bonnet Plume River region; no significant increase in size potential due to geoph and dd work in 1976. |
| Y.T. 47 | PROFEIT (DOC)<br>Canamax Res Inc (in 1983)<br>106 C/14<br>64°49' 133°03' | Gal, sph, tetrahedrite, py, marcasite, secondary smithsonite, hydrozincite and malachite as massive pods, breccia, fracture and vug fillings and along bedding planes in Upper Hadrynian dolomite. | **1974–78**: staked as a result of follow–up prospecting on a stream sediment geochem anomaly; geol mapping, sampling.<br>**1981**: dd. | 31' × 27' at 16.8% Zn, 47.2% Pb, 17.2 oz/t Ag across 31' of largest massive pod.<br>(DIAND EGS 1976–15, p 57) | Property at Mount Profeit, Bonnet plume River area; best intersection from 1981 drilling assayed 0.18% Zn, 9.9% Pb, 142.6 g/mt Ag over 2 m. |
| Y.T. 48 | MARG<br>NDU Resources L<br>Cameco<br>106 D/1<br>64°00'40" 134°28'20" | Volcanogenic massive sulphides containing py, sph, cp, gal, minor asp and tetrahedrite in a qtz and barite gangue in altered and deformed metavolcanics of probable Mississippian age. | **1964**: GSC's Operation Keno–Pb–Zn anomaly<br>**1965-66**: geochem survey.<br>**1977**: geochem surveys, tr.<br>**1982**: geochem surveys, tr.<br>**1988-89**: dd; June 1988 discovery. | Mineral reserve 2 097 000 mt at 0.028 oz/t Au, 1.87 oz/t Ag, 1.90% Cu, 2.60% Pb, 4.99% Zn<br>(NDU Resources, News Release, 31/07/89) | Property located some 90 km NE of Mayo and 380 km North of Whitehorse. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 49 | CLARK<br>W. Ramage, S. Van Bibber, NDU Resources Inc<br>106 D/2<br>64°07'25" 134°57'05" | Gal–sph, minor py and cp within 2' to 20' wide carbonate–filled veins/faults in Paleozoic quartzite/phyllites and as pipe–like replacements in limestone. | **1967–73**: discovered during a soil and silt sampling survey; staking, trenching, dd, channel sampling, gravity survey; 1,490' adit, u/g dev and dd.<br>**1987–88**: minor geochem survey, dd. | ***(i) Above Adit Level***: 142,615 ind at 6.43 oz/t Ag, 4.99% Pb, 4.58% Zn and 72, 108 inf at 5.59 oz/t Ag, 4.54% Pb, 4.61% Zn<br>***(ii) Below Adit Level***: 94,526 ind at 8.85 oz/t Ag, 6.51% Pb, 4.45% Zn and 51,612 inf at 10.22 oz/t Ag, 7.36% Pb, 4.92% Zn<br>(NM 05/08/76) | Property 29 km NE of Keno; adit 138' below surface showing; zone traced to a depth of 310'; limestone hosts the significant manto type Ag–Pb–Zn deposits. |
| Y.T. 50 | PAUL (CAMERON)<br>Archer, Cathro & Assoc (1981) L<br>106 D/3<br>64°05'25" 135°00'35" | Mineralization scattered along fault that displaces limestone lens within Proterozoic/Cambrian Grit division; vein material from dump includes Mn oxides, siderite altered to limonite, qtz, gal, sph, cp, py, asp. | **1919**: ground covered by Cameron cls: adit crosscut trenching.<br>**1974**: Bullion Mtn Mng L option, geol mapping, trenching, dd.<br>**1987**: restaked. | N/A Ag–Pb–Zn | Deposit 72 km NE of Mayo on N slope of Mount Cameron. Six holes along 650' length of the fault returned intersections ranging from 20' at 8.38 oz/t Ag, 32.28% Pb–Zn to 46' at 0.29 oz/t Ag, 8.49% Pb–Zn. |
| Y.T. 51 | MAR<br>Queenstake Res L<br>106 D/4<br>64°02' 135°45' 30" | Tungsten–bearing skarn in contact with Cretaceous qtz monzonite Potato Hills stock that intrudes Yukon Group metasediments and tuffs. Scheelite occurs as disseminations and thin layers of crystals in the diopside–amphibole–epidote skarn. | **1904**: placer scheelite discovered.<br>**1917–18**: scheelite–bearing veins discovered.<br>**1942**: scheelite found in skarn.<br>**1968**: staking, trenching.<br>**1978–83**: Cantung option; geol, geochem, geoph survey, trenching, dd; metallurgical bulk tests indicate 80% W recovery by gravity separation.<br>**1986**: tr, dd on the adjacent MAR gold vein system. | Dd–ind: 6,000,000 at 0.82% $WO_3$ includes 1,5000,000 at 1.2% $WO_3$ ***1981***<br>(Queenstake Res L, News Release 07/03/86) | Located some 50 km NNE of Mayo. The deposit lies near the top of the ridge between Dublin and Ray Gulches; proposed adit access is from the Ray Gulch side. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 52 | PESO–REX<br>J. Moreau (in 1987)<br>106 D/4<br>64°00'00" 135°54'00"<br>(Rex vein) | Vein system in shear zones crosscutting qtzite, phyllite, graphitic and chloritic schists of Proterozoic–Cambrian age; gouge type, asp, py, jamesonite, boulangerite, gal, sph, tetrahedrite, qtz, siderite. Mineralization along the fault consists of a breccia of quartz and phyllite fragments with siderite, py–jamesonite–boulangerite–gal–tetrahedrite, arseno-pyrite and sph. | **1910**: staking.<br>**1949–50**: restaking, bulldozer cuts.<br>**1961–64**: stripping, trenching, EM and geochem work, dd, shallow shaft and 361' adit on Peso No 1 vein; a 900' + adit, u/g dev and dd on Rex vein.<br>**1972–74**: surface expl, dd, geochem survey.<br>**1977**: trenching. | Proven–ind: 154,000 at 20.9 oz/t Ag, 3.7% Pb ***1965***<br>(D D Campbell 10/11/65 in Peso Silver ML, 1965 AR) | Property 5 km SW of Dublin Gulch; tonnage and grade combined for Rex vein and No 1 vein. The latter is 4 km WSW of Rex. |
| Y.T. 53 | BLENDE (BRAINE)<br>NDU Resources L<br>106 D/7<br>64°24' 30" 134°40' | Ten mineralized zones consists of sph, gal, py, cp, tetrahedrite and sparry dolomite as matrix in a tectonic breccia and as fracture fillings in Helikian dolomite of Gillepsie Lake Gp. | **1975**: showing discovered during regional geochem survey, staking, geol mapping, geochem soil sampling.<br>**1981–82**: restaking, geochem, prospecting, chip sampling; air photo interpretation.<br>**1984–45**: additional claims staked, geol mapping, geochem survey, tr.<br>**1988**: dd. | 10% Cu–Pb–Zn over 20' postulated for the 2,000' length of the showing. (DIAND EGS 1976–15, p 60) | Property on Mount Williams, 109 km NE of Mayo. The most important vein zone traced 900 m with width up to 15 m.<br>In 1988 drilling, the best of 3 holes cut 86.3 m at 9.1% Pb-Zn combined and 106.3 g/t Ag (Yukon Mining and Exploration Overview, 1988, p 12) |
| Y.T. 54 | AHEARNE (WIND R)<br>106 D/15<br>64°46'00" 134°37'30" | Cp in a siderite vein cutting Helikian sediments. | **1935**: staking.<br>**1968**: trenching, sampling, mag survey.<br>**1970**: dd–ind tonnage.<br>**1976**: Wind River ML acquired property, B R Res L option; sampling, dd 2 holes.<br>**1982**: restaked by Wolfe Res L. | Ind: 73,080 at 2.51% Cu, a little Ag ***1970***<br>(NM 19/08/76) | Property in Wind River area, 96 km N of Keno Hill. |

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| Y.T. 55 | KANE (TUF)<br>Golden Horizon Res Corp<br>115 A/3<br>60°07'05" 137°08'10" | Gal, sph, py, tetrahedrite–tennantite in qtz stockworks in and at the contact of an altered qtz–hornblende–feldspar porphyry dyke cutting Cretaceous granodiorite. | **Early 1960s**: discovery, staking, trenching.<br>**1965–69**: staking, geoph, geochem, trenching, sampling.<br>**1970–74**: road building, ore shipped, trenching, mapping, sampling, dd, geochem, geoph.<br>**1979**: restaking, geol mapping, trenching, rock sampling, geochem soil survey.<br>**1984–85**: soil geochem, EM, bulldozer stripping, trenching, VLF–EM, geol mapping; test mng and bulk samples sent to smelter. | Prob: 50,000 at 68.64 oz/t Ag and 5.04% Pb across 1.68' and open strike length of 500' ***1984***<br>(Everest Res L, prospectus 31/12/84 and Golden Shamrock Res L, prospectus 26/08/85) | Property 7 km SW of Dalton Post, about 128 km SW of Whitehorse; leased to Archer, Cathro & Assoc in 1984. |
| Y.T. 56 | JOHOBO<br>Gov't of Canada<br>115 A/5<br>60°29' 137°34' | Two main occurrences (Bornite Creek and Main Show) consisting of small lenses of massive bornite and cp in faults and shear zones on limb of tightly–folded anticline in Upper Triassic andesite flows. | **1950–71**: discovery, staking, geol mapping, dd, surface stripping; shipped 3,500 tons of high–grade 1959–62; 2 adits and some u/g work, EM survey.<br>**1976**: acquired by Crown. | 50,000 at unstated grade Cu on dump ***1970***<br>(NM 05/03/70) | The property is near Kathleen Lakes in Kluane National Park. The Principal zone on the main show, investigated by u/g work, measured 47' × 7' × 50' deep. |
| Y.T. 57 | MC GROUP<br>115 A/13<br>60°51'50" 137°57'13" | Two Cu–bearing shear zones in or near an elongated body of partly serpentinized peridotite intruding Lower Cretaceous sediments. | **1965–69**: discovered during surface expl, sampling, dd; mag and EM surveys. | 120' × 16' at 2.16% Cu to 210' depth 1967<br>(NM 19/01/67) | Property 10 km SW of Kloo Lake about 32 km SE of Kluane Lake. Dimensions based on 3 holes, open along strike and at depth. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 58 | **REX**<br>Golden Gate Expls L<br>115 A/14<br>60°45'15" 137°18'35" | Cross–fibre and slip–fibre chrysotile asbestos as veinlets in partly serpentinized dunite. | **1953**: asbestos float discovered.<br>**1957–70**: trenching, geol and mag surveys, dd, airborne mag, overburden dd, sampling.<br>**1973**: Asarco option (dd, mill test on core samples), since dropped.<br>**1978–79**: rotary and percussion drilling.<br>**1981**: dd.<br>**1987**: geochem and geoph surveys. | c 3,500,000 at 1.5–2.0% asbestos fibre to about 200' depth ***1970***<br>(Golden Gate Expls L, VSE SMF 14/02/72, p 3) | Property 10 km ESE of Haines Junction. New zone discovered by drilling 1978–79 south ward from Main zone. |
| Y.T. 59 | **CANALASK**<br>All–North Resources L<br>Chevron Minerals L<br>115 F/15<br>61°57'25" 140°32'00" | An ultramafic sill–like complex intrudes Permian volcaniclastic unit. Approximately 200 m north of the sill, po–pn–sph–py–marcasite–cp as fine–grained, patchy disseminations and stringers, and less commonly as small massive lenses occur within certy argillite and banded chert of the volcaniclastic unit. | **1952–58**: discovery, staking, dd, adit, winze, u/g dev and dd.<br>**1966–68**: trenching, ground mag, EM and IP surveys, surface and u/g dd.<br>**1972–73**: geol mapping, mag and EM surveys, dd to test anomalies.<br>**1987**: geoph and geochem surveys, dd by Rockridge Mining Corp. | ***(i)*** Dd–ind: 324,600 at 1.69% Ni, a little Cu<br>***(ii)*** dd–ind: 20,800 at 0.84% Ni<br>***(iii)*** poss: 40,400 at 1.48% Ni<br>***1976***<br>(IANA EGS 1976–10, p 8)<br>Identified 500,000 at 1.68% Ni, 0.04% Cu ***1973***. (All–North Res L, 1987 AR) | Property at junction of Miles Creek and White River 96 km NW of Kluane Lake. Drill hole 73–7 assayed 0.45 g/t platinum and 1.37 g/t palladium over 3.05 m. |
| Y.T. 60 | **WELLGREEN**<br>All-North Res L.<br>Galactic Res L<br>115 G/5<br>61°28'00" 139°31'20" | Mafic dykes intrude the Middle Jurassic Kluane ultramafic sill along steeply–dipping fault zone. Scattered massive po–pn–cp massive sulphide lenses occur along the footwall contact of the dyke. Disseminated sulphides are present in the dyke and overlying peridotite. | **1952–56**: discovery, 4,795' adit, 2 winzes to 600' below adit, surface and u/g dd.<br>**1968–73**: ground EM, dd, marketing agreement with Sumitomo of Tokyo; prod May 1972 – July 1973 with 600 tpd mill.<br>**1986-87**: geochem and geoph surveys, surface dd, u/g workings reopened.<br>**1988**: u/g development, dd, metallurgical tests, preliminary feasibility study. | Prob: 46,600,000 at 0.36% Ni, 0.35% Cu, 0.015 oz/t Pt, 0.010 oz/t Pd<br>Poss: 8,400,000 at similar grade. About 70% mineable by o/p.<br>(NM 29/05/89) | Property at Quill Creek about 32 km W of the NW end of Kluane Lake. The 189,211 tons milled from May 72 to July 73 avg 2.23% Ni, 1.39% Cu, some Co and Pt; mng ceased in 1973 due to lack of continuity in the deposit and poor ground conditions; mill and equipment left in place. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 61 | HOPKINS (ACME)<br>Casau Exploration L<br>115 H/7<br>61•16'20" 136•54'30" | Skarn containing cp–po and minor Mo–scheelite and low Au values occurs in limy sections of Paleozoic or older Yukon Group metasediments near the contacts of Mesozoic granodiorite stocks and feldspar porphyry dikes. | **1907**: tr.<br>**1963**: tr.<br>**1968**: geoph and geochem surveys, geol mapping.<br>**1976-79**: scintillometer and rock geochemical survey, ground mag and IP surveys, dd and percussion drilling.<br>**1984**: restaked. | Ind: 600,000; no grade stated.<br>(GCNL 20/04/89) | Property near southern end of Aishihik Lake, 120 km NW of Whitehorse. Drilling in 1977 in 4 holes in an area 400 ft by 400 ft averaged 1.65% Cu across a true thickness of 52 ft. Assays of well mineralized material from old drill core returned values up to 0.10 oz/t Au. |
| Y.T. 62 | BROWN–McDADE<br>BYG Natural Res Inc<br>115 I /3<br>62•02'57" 137•07'22" | Asp, py, gal, sph, stibnite, tetrahedrite, native silver and other Ag–bearing mnrls in qtz lenses, veins and stockworks in shear zones cutting Cretaceous grantic intrusives. | **1945–47**: discovery, staking, dd, adit, u/g dev.<br>**1966–67**: u/g remapping, dd and a little dev.<br>**1970**: EM and mag airborne surveys.<br>**1975–76**: re–evaluation.<br>**1985**: trenching, dd; soil sampling, rotary drilling, EM survey.<br>**1988**: dd, metallurgical tests, feasibility study. | ***Mount Nansen – Brown McDade***: Prov, prob, poss: 1,050,925 at 0.274 oz/t Au, 5.53 oz/t Ag, (BYG Natural Res Inc, 1988 AR) | In six zones; includes some 200,000 tons of o/p material and 250,000 tons of heap leach reserves. Located about 48 km west of Carmacks. |
| Y.T. 63 | MOUNT NANSEN<br>(WEBBER–HUESTIS)<br>BYG Natural Res Inc<br>115 I /3<br>62•03' 137•09' | Asp, py, gal, sph, stibnite, and native Au, with freibergite (the most abundant Ag mnrl) in qtz lenses, veins and stockworks in severely faulted Yukon Group metamorphosed rocks and Eocene feldspar porphyry plugs. | **1947**: staked Huestis vein.<br>**1962–69**: trenching, sampling, dd, geochem sampling, 3 adits, extensive u/g dev, treated 18,000 from Webber and Huestis zones 1968–69 at 70 to 100 tpd rate.<br>**1976**: reopened mne for 10 months, milled 6,400 tons.<br>**1985-86**: geochem and geoph surveys, tr, percussion drilling.<br>**1987-88**: tr, dd, rehabilitation of u/g workings. | See: Brown McDade above. | Property adjoins Brown–McDade about 48 km WSW of Carmacks. The principal zones on the property are the Huestis, Webber and Cabin veins. Maximum length and depth of zones are 1,200' and 600' respectively. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 64 | CASH<br>Nordac Mgn Corp (in 1985)<br>115 I /5<br>62°25' 137°37' | Py, cp, mo along fractures, in qtz veins, and disseminations in pervasively altered Tertiary feldspar porphyry stock and adjacent Paleozoic metamorphic rocks. | **1967–70**: staked in 1969 to cover source of heavy metal anomaly, soil and stream sediments survey.<br>**1974–77**: restaking to cover aeromag anomaly on GSC map; geol mapping, ground mag, soil sampling, dd, IP survey.<br>**1985**: geochem soil analyses. | 2 500 m × 800 m at 0.2% Cu–Mo<br>(GSC P 78–1A, p 284)<br>Drill results indicate avg grade of 0.17% Cu, 0.018% $MoS_2$<br>(DIAND, YE 1985–86, p 331) | Property at Big Creek about 45 km SW of Minto. One mineralized zone outlined in sediments by dd contains a geological maximum of 40 million tons.<br>(IANA, EGS 1978–9, p 71). |
| Y.T. 65 | ANTONIUK<br>Rayrock Yellowknife Res Inc<br>Big Creek Res L<br>Rexford Minerals L<br>115 I /6<br>137°05'30" 62°16'00" | Finely disseminated Au occurs in a Cretaceous hydrothermally altered subvolcanic diatreme which intrudes Upper Cretaceous Mt. Nansen Gp volcanics and Triassic intrusive rocks. | **1974–75**: Au–As soil anomaly, dd.<br>**1981**: dd by Arctic Red Res.<br>**1985**: bulldozer trenching, mapping, sampling, percussion drilling, bulk sampling, leach tests.<br>**1986-88**: dd, bulldozer tr, rotary drilling to outline near surface material suitable for heap leach. | Mineable: 3 715 500 mt at 1.14 g/mt Au, 0.5 g/mt cutoff, 0.85:1 waste/ore ratio.<br>(DIAND YE 1985-86, p 68) | Recovery greater than 80% from heap leach tests. Located 1 km E of La Forma Mine, some 220 km NW of Whitehorse. |
| Y.T. 66 | GUDER (MARGARETE/ AUGUSTA)<br>Big Creek Res L<br>Rexford Minerals L<br>Chevron Minerals L<br>115 I /6<br>62°17'30" 137°08' | Au occurs in qtz–epidote veins and skarn zones in a pendant of Paleozoic metamorphic rocks which are cut by qtz–feldspar dykes. Mineralization consists of 40 to 70% magnetite with lesser calcite, epidote, quartz, limonite, actinolite, hematite, py–cp and native Au. | **1930's**: tr,<br>**1959**: dd.<br>**1964**: tr.<br>**1973-74**: geoph and geochem surveys, tr, dd.<br>**1980, 1986**: geochem surveys,<br>**1987**: geoph survey, tr, dd. | 92 000 mt at 3.8 g/t Au, 68 g/t Ag<br>70 700 mt at 4.1 g/t Au, 104 g/t Ag<br>(DIAND YE 1985-86, p 335) | In Margarete vein to a depth of 20 m.<br>In Augusta skarn zone to a depth of 20 m. Strip ratio 10:1 for both deposits. |

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| Y.T. 67 | LAFORMA<br>Rayrock Yellowknife Res Inc<br>Doron Expls Inc<br>115 I /6<br>62•16′ 137•06′ | Numerous veins containing Au–bearing qtz and sulphides in shear zones cutting Jurassic granodiorite that has been intruded by Eocene porphyry dykes; most dev on G–3 zone, that has been traced over 1,500′ and vertically 600′, with Au values over widths to 10′. | **1931–40**: staking, 3 adits and u/g dev; prod from small mill during 1939–40.<br>**1962–66**: 4th adit driven, u/g dev and dd, 125–ton mill, small prod 1965–66.<br>**1974–75**: soil geochem, dd.<br>**1981–84**: geochem, mag, EM, IP; u/g drifting, raising and dd; metallurgical testing.<br>**1985**: geochem soil survey, tr, rotary drilling.<br>**1987-88**: u/g dev, dd. | Identified: 196,000 at 0.40 oz/t Au (cut and diluted) in main G–3 zone.<br>(Tally–Ho Expl L, 1987 AR)<br>*or* prov, potential: 400,000 at 0.4 oz/t Au in G–3 zone.<br>(CMH 1989-90, p 443) | Property at Freegold Mtn 30 mi WNW of Carmacks |
| Y.T. 68 | NUCLEUS<br>Archer, Cathro & Assoc<br>Chevron Res L<br>115 I /6<br>62•20′ 137•20′40″ | Silicified stockwork zones of dissem-inated gold in porphyry dykes along NW trending faults in Paleozoic metasediments and Cretaceous granodiorite. | **1986-88**: bulldozer tr, rotary drilling. | 4,100,000 mt at 1.06 g/t Au<br>(DIAND Exploration Overview, 1988, p 34). | Located some 14 km NW of Mount Freegold and 250 km NW of Whitehorse. |
| Y.T. 69 | TINTA HILL<br>Silver Tusk ML<br>Panther ML<br>Mill City Gold Mng Corp<br>115 I/7<br>62•17′10″ 136•59′20″ | Gal, sph, minor cp, py and tetrahedrite disseminated and as massive patches in qtz–carb veins confined to 100′–wide, steeply–dipping shear zone in Triassic (?) granodiorite/amphibolite. Minor amounts of cp and py in wallrocks. Malachite and azurite in oxidized portions of veins. | **1930–32**: discovery, trenching, shallow shafts.<br>**1939–40**: restaking, trenching, shallow shafts and adit.<br>**1959–60**: trenching, dd.<br>**1966–69**: geochem, EM, sampling, staking, soil survey.<br>**1973–76**: dd, geochem survey.<br>**1980–81**: 342′ adit; crosscutting and drifting from 2 portals.<br>**1982**: dd.<br>**1986**: tr.<br>**1988**: dd. | Dd ind: 843,000 at 0.075 oz/t Au, 5.35 oz/t Ag, 6.03% Zn, 4.71% Pb, 0.37% Cu, 0.049% Sb (GCNL, 5/08/80) | Property 42 km NW of Carmacks; |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 70 | WILLIAMS CREEK<br>Dawson Range Joint Venture (c 1976)<br>115 I /7<br>62•21′ 136•42′ | Cp, bornite, py and minor mo as interstitial grains parallel with the foliation of gneissic zones within granodiorite of the Triassic Klotassin batholith. An oxidized zone, mainly malachite and azurite extends to a depth of 800′. | **1970**: discovery of mineralized outcrops; staking, trenching, grid soil sampling, geol mapping, EM work, dd. | Geol: 16,000,000 at 1% Cu, low Au and Ag values ***1973***<br>(DIAND EGS 1977–1, p 81; NM 22/11/73) | Property is 38 km NW of Carmacks; the deepest hole intersected mineralization at 1,400′; circa 1976 the Dawson Range Joint Venture was managed by Archer, Cathro & Assoc L. |
| Y.T. 71 | MINTO–DEF (BOUNDARY)<br>Western Copper Holdings L and Asarco (Minto); United Keno Hill ML, Falconbridge L (DEF)<br>115 I /11<br>62•37′ 137•15′ | Mineralization occurs within zones of moderate to strong foliation in gneissic zones of the Triassic Klotassin batholith. The generally flat–lying, irregular mineralized zone, which is truncated on the N by a fault, consists of disseminated cp–bornite–magnetite, py at the fringes and minor hessite and native Au. | **1971–73**: United Keno Hill ML staked DEF group over malachite–stained outcrops discovered during prospecting; soil geochem, EM, IP and geol surveys, trenching.<br>**1973–76**: deposit discovered by dd continues S into adjoining Minto group of Silver Standard–Asarco; geol, IP, mag surveys on DEF group, and mag survey, dd on Minto group; metallurgical tests.<br>**1976–77**: feasibility studies; surficial study and overburden drilling.<br>**1982–84**: trenching, percussion drilling.<br>**1986**: rotary drilling on DEF by United Keno. | 7,221,000 at 1.86% Cu, 0.2 oz/t Ag, 0.015 oz/t Au (cut–off 0.6% Cu) ***1976***<br>(DIAND 1977–1, p 75) | The Boundary deposit lies 20 km WNW of Minto; a joint feasibility study produced a workable o/p prod plan (stripping ratio of 6:1) at projected 2,000 tpd rate, but needed higher Cu prices in 1977 for prod to be economic; an increase in tonnage would make project more attractive. |
| Y.T. 72 | MINTO (DISCOVERY)<br>Asarco Expl Co of Canada L<br>Western Copper Holdings L<br>115 I /11<br>62•36′35″ 137•14′00″ | Cp, bornite disseminated in gneissic zones in Triassic Klotassin granodiorite. Locally, the deposit has been deeply oxidized, in one hole mixed oxides and sulphides persisted to 86′, then changed to sulphides to 130′. | **1970–72**: discovered in 1971 as a result of silt sampling; soil sampling, trenching, dd, IP, EM, mag and further geochem and dd. | 2,500,000 at 1.5% Cu in 4 zones. (NM, 20/09/73) | The Discovery area lies about 610 m SE of the Boundary deposit, 19 km WNW of Minto. The most significant vertical hole No 2, drilled to 492′ returned 0.98% Cu between 0–140′ (the first 42′ over 2.1% Cu). |

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| Y.T. 73 | BOMBER<br>Casino Silver ML<br>115 J/10<br>62°42.9' 138°49.3' | Lenses of massive sulphs in qtz–barite–gal veins plus sph, py and cp within a shear zone cutting Triassic granodiorite of the Klotassin batholith. | **1927**: surface and u/g work.<br>**1947–48**: staking, hand trenching.<br>**1965–67**: Casino Silver ML formed; trenching, adit, geochem, mag, EM, dd.<br>**1976–81**: trenching, u/g dev; shipped some hand sorted ore. | ***(i)*** 40' × 1.4' at 48.4% Pb, 8.8% Zn, 48.4 oz/t Ag<br>***(ii)*** 80' × 1.6' at 18.2% Pb, 0.3% Zn, 2.2% Cu, 37.1 oz/t Ag<br>***1966***<br>(AC 115 JK 27) | Casino–Canadian Cr area, 306 km NW of Whitehorse; shipped 188 mt high–grade ore during the 1965-79 period. |
| Y.T. 74 | CASINO (PATTON HILL)<br>Casino Silver ML<br>(owned 38.4% by Teck Corp)<br>115J/10<br>62°44'10" 138°49' | A porphyry Cu–Mo deposit within the Casino complex (a Tertiary subvolcanic unit of breccia pipes, porphyry plugs and dykes intrusive into Triassic granodiorite of the Klotassin batholith.) Hypogene alteration zoning centred on the breccia pipe, with cp and mo concentrated in zone phyllitic (qtz, sericite, sulphide) along the inner side of the pyrite halo. Supergene enriched zone containing malachite, qtzite, tenorite, chalcocite, covellite, native Cu, plus py–mo and magnetite form up to 150 m of capping rock. | **1966–67**: geoph, Cu geochem anomaly, minor cp from dd and geology indicated porphyry potential in 1967.<br>**1969–73**: Brameda Res L option, geol, geochem, extensive dd, metallurgical tests, option dropped.<br>**1973**: soil sampling, EM survey, dd.<br>**1985**: Archer Cathro & Assoc and Permian Res L (option); soil sampling, trenching, bulk sampling, heap leach-ing tests, to determine the Au content of the Carr Ridge oxide zone, which overlies the Cu–Mo deposit. | 179,000,000 at 0.370% Cu, 0.039% $MoS_2$ ***1970***<br>(Brameda Res L, 1970 AR)<br>***Carr Ridge oxide zone***: 22 700 000 mt geol ind at 0.58 g/mt Au (cutoff 0.35 g/mt to 70 m) ***or*** well over 160 000 000 mt at 0.38 g/t Au (using no cutoff); Ag is c double the Au content.<br>***1985***<br>(W D Eaton & C A Main, Archer, Cathro & Assoc Jan/86) | Property 96 km W of Minto; mineable tonnage (0.45% Cu equivalent) based on o/p design; waste to ore ratio is 1.67 to 1; cut–off 0.275% Cu equivalent for primary and 0.30% for supergene mineralization. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| Y.T. 75 | MOSQUITO CREEK (CCL AND LUBRA)<br>115 N/15<br>63•55′ 140•48′ | Argentiferous galena–bearing qtz veins, some with local asp and minor chalcocite, in metamorphic rocks of the Proterozoic/Paleozoic Pelly Gneiss and Nasina Quartzite. | **1965–66**: galena float discovered, staking, trenching, mined and shipped a little high–grade.<br>**1967–69**: Connaught ML acquired property; stripping, trenching, EM and geol surveys, silt and soil sampling, dd.<br>**1974–76**: small tonnage mined.<br>**1979**: Westley ML option, trenching, geoph survey. | ***(i) No 1 vein***: 150′ × 4′ at 22.8 oz/t Ag, 0.031 ox/t Au, 19.9% Pb<br>***(ii) No 4 vein***: 375′ × 4′ at 17.95 oz/t Ag, 0.002 oz/t Au, 8.32% Pb ***1969*** (DIAND MIR 1969–70, Vol 1, p 33) | Property 56 km SW of Dawson; trenching intermittently exposed No 1 vein for a length of 3,400′.<br>In 1975 surface mng (230 t ore) from No 3 vein |
| Y.T. 76 | LUCKY JOE<br>Rio Tinto Canadian Expl (in 1980)<br>115 0/11<br>63•35′ 139•30′ | Dissem py, po, cp in blanket-like zones in Nasina facies schists of the Yukon Cataclastic Complex. | **1970**: geochem survey, tr, dd.<br>**1975-76**: geoph and geochem surveys, dd.<br>**1980**: geoph survey. | Elongate zone 200 m wide, 30 m thick and at least 800 m long. Cu grades range from 0.3 to 0.6% Cu in drill intersections of 20 to 30 m but locally are as high as 0.95% Cu over 5.2 m. Assays range from 0.05 to 0.77 ppm Au and from 0.5 to 3.0 ppm Ag. (CIM Spec Vol 37, p 174) | Three known zones of Cu mineralization along a 5 km strike length. Located some 60 km south of Dawson. |
| Y.T. 77 | ZETA<br>Noranda Expl CL<br>115 P/14<br>63•59′30″ 137•17′20″ | Sn occurs with Ag values in three parallel qtz–tourmaline–asp veins contained in metamorphosed Ordovician sediments at the contact with the Cretaceous Lost Horses syenite pluton. | **1981-83**: geochem surveys and tr.<br>**1984**: geochem and geoph surveys, tr, dd.<br>**1985**: rock sampling.<br>**1986**: optioned to Danra Resources L<br>**1988**: dd. | 108,000 at 16.27 oz/t Ag (GCNL, 23/08/88) | Property some 105 km east of Dawson, in the Syenite Range. |

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| Y.T. 78 | HART RIVER (MARK GROUP)<br>116 A/10<br>64°38′ 136°51′ | The tabular massive sulphide deposit is enclosed in black argillite of the Helikian Gillespie Lake Gp where it exhibits 9 facies change from orange dolomite and is in close proximity to basaltic flows of the overlying Pinguicula Gp. This thinly layered sulphide deposit is composed of py, po, minor sph, gal, tetrahedrite, some dolomite, qtz, calcite and chert as gangue. | **1966–71**: discovery, staking, trenching, soil sampling, EM, dd; 2 adits, one 840' long; u/g dev and dd.<br>**1978**: geol work. | 577,445 proven at 1.45% Cu, 3.65% Zn, 1.45 oz/t Ag, 0.87% Pb, 0.04 oz/t Au and 600,000 prob of similar grade ***1967***<br>(Hart River ML, 1969 AR) | Property in Hart River area 128 km NW of Mayo. A 109 km winter road was built in 1968–69 from the Dempster Highway. |
| Y.T. 79 | MARN<br>Noranda Expl CL<br>116 B/7<br>64°27′ 138°47′ | Mineralization consists of a massive po–cp–asp skarn zone formed at the contact between Permian Takhandit ls and a large diorite sill belong to the Cretaceous Mt. Brenner stock. | **1979-80**: geoph and geochem surveys, dd in 8 holes (1 004 m).<br>**1983**: dd in 13 holes (1617 m).<br>**1985**: geoph survey, dd in 2 holes. | Estimated at 275 000 to 330 000 mt at 8.6 g/t Au, 1% Cu, 0.1% W, 17 g/t Ag<br>(DIAND YE 1985-86, p 396) | Located some 55 km NNW of Dawson. |
| Y.T. 80 | REIN<br>UMEX Inc<br>116 B/9<br>64°43′ 138°11′ | Bedded barite mineralized zone in sediments of Devonian–Mississippian Road River Fm. | **1976–77**: staking, soil sampling for Pb, EM.<br>**1978**: Ba anomaly from soil sampling.<br>**1979–80**: trenching, drilling, bulk samples for mill testing. | 500 000 mt barite (sp.gr 4.2) ***1980***<br>(DIAND Files) | Property 95 km NE of Dawson and 10 km E of Dempster Highway. Potential for additional tonnage. |
| Y.T. 81 | CLINTON CREEK (BEAR CREEK ZONE)<br>Brinco L<br>116 C/7<br>64°26′42″ 140°43′15″ | The ore mined at Clinton Creek consisted of a stock-work of cross–fibre chrysotile asbestos veinlets in a body of serpentinite that intrudes the Proterozoic/Paleozoic Nasina metasedimentary series.. | **1967–78**: o/p asbestos prod. Recoverable grade in 1974 was 4.37% fibre. The Bear Creek zone was dd in 1974, but not mined. | Poss: 7,500,000 at unstated grade Asb in Bear Creek zone ***1972***<br>(Cassiar Asbestos Corp L, 1974 AR) | The Bear Creek zone is the extension of the Porcupine deposit (o/p mine) to the SW; considered uneconomic because of need to mine u/g. |

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| Y.T. 82 | CALEY<br>F Caley (in 1978)<br>116 C/8<br>64°18'15" 140°12'05" | A thin ultramafic zone 1,100' long and up to 400' thick contains cross–fibre chrysotile asbestos and qtz–carbonate veining in serpentinite; magnetite is concentrated along the asbestos veinlets. | **1955–64**: discovery, staking, trenching, sampling, 2 adits, u/g dev, bulk sampling, mag survey, stripping, dd.<br>**1967**: airborne mag survey.<br>**1971–72**: trenching, geoph survey.<br>**1977–78**: restaking; 326,518 tons mined. | Proven: 1,000,000 of medium to high–grade, group 4 milling, *1966* (NM 19/01/67, p 14) | Property on Cassiar Creek about 45 km NW of Dawson. Ore mined 1977–78 by individual operator and shipped to Clinton Creek mine for processing. |

# NORTHWEST TERRITORIES

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 1 | RAY<br>Esso Mnrls L<br>(in 1978)<br>36 C/8<br>64°28' 76°09' | Radioactive exposure of Aphebian gneiss and pegmatite aver 0.28 kg/mt U over 29 m at surface. | **1975–76**: airborne scintillo–meter, mapping and ground investigation of anomalies.<br>**1978**: dd, ground radio–metric survey. | Ind: 75,000 at 1.00 lbs/t $U_3O_8$ (28.8 mtU) to a depth of 60 m ***1978*** (DIAND, EGS 1973-2, p 28) | Baffin Island, 40 km NE of Cape Dorset. Zone small and did not con-tinue at depth. The ground was open in 1989. |
| NWT. 2 | TURQUETIL LAKE<br>Noble Peak Res L (50%)<br>Dejour ML (50%)<br>55 E/13<br>61°58.3' 95°55.6' | Gold and pyrite and arsenopyrite mineralization associated with carbonate and quartz stockworks in chlorite and Fe–carbonate altered Archean mafic volcanic rocks. | **1960–61**: disc.<br>**1969–71**: mag, EM, dd.<br>**1976–78**: IP survey, dd.<br>**1981**: prospecting, VLF EM.<br>**1988–89**: mag, EM, dd. | Continuous Au intersections in a strike length of more than 900 m, incl. 0.215 oz/t Au across 31.3' | Tests demonstrated a 95.4% recovery using flotation, pressure oxidation and cyanidation. |
| NWT. 3 | FAT LAKE<br>Borealis Expl L<br>55 K/4<br>62°07.2' 93°51.5' | Visible gold occurs in deformed quartz veins that are hosted in an Archean quartz gabbro. Veining in gabbro is related to steeply dipping NE-trending Archean ductile shear zones. | **mid–1940s**: disc.<br>**1970**: airborne geoph, tr.<br>**1985–87**: mag, max. min., VLF EM, surf sampling, dd.<br>**1988**: ramp sunk and 100 ton test mill erected. | Proven: 52,500 at 0.325 oz/t Au across 0.161 m; ind: 184,000 at 0.307 oz/t across 0.155 m ***1986*** (Borealis Expl L, 1988 AR) | The resource estimate is for veins nos. 99 to 103 in the South zone. |
| NWT. 4 | CACHE<br>Noble Peak Res L<br>55 L/7<br>62°22.2' 94°37.0' | The stratabound deposit is hosted in sheared felsic pyroclastic tuff/lapilli and massive flows. Visible gold is principally contained in carbonate and quartz veins. | **1988**: Dighem survey, disc, dd. | Prob: 26, 000 at 0.28 oz/t Au; poss: 14, 670 at 0.26 oz/t open along strike and to depth ***1988*** (Noble Peak Res L, release 23/05/89) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 5 | MAC<br>Noble Peak Res L<br>55 L/7<br>62°18.9' 94°53.4' | Carbonatized zones in mafic volcanics. The main zone, up to 100 m wide, has been traced for 400 m and is open. | **1988**: Dighem survey, disc, tr.<br>**1989**: dd. | At least 1,300' long x 49' wide with Au values in tr and 4 ddh ***1989***<br>(Noble Peak Res L, release 23/05/89) | True width dd intersections, 100' apart downdip, gave 0.18 oz/t Au across 13.77' and 0.21 oz across 12.30'.<br>The Mac deposit is located on an island in Kaminak Lake, 15 km WSW of Cache deposit and 65 km NE of Turquetil Lake deposit. |
| NWT. 6 | BAKER LAKE<br>Abermin Corp<br>55 M/12, 13; 56 D/2<br>64°10'11' 94°33'25"<br>63°48'59" 95°35'09"<br>63°41'25" 95°46'21"<br>68–2, 74–1 W and 68–4 deposits) | Paleohelikian or late Aphebian sediments and lavas of Kazan Fm and Christopher Island Fm of Dubawnt Group; U occurrence related to unconformities at the base of this group. Pitchblende, uranite and associated sulphides occur as follows:<br>(1) fracture controlled mineralization in Dubawnt Group and basement gneisses (U–Cu–Pb–Mo–Zn–Ag–Au–Se),<br>(2) diatreme breccia zones in basement gneissses (U–Cu–Zn),<br>(3) impregnation and micro-fracture mineralization in altered arkose peripheral to lamprophyre dykes (U–Cu–Ag). | **1969–70**: airborne spectrometer survey and ground follow–up; prospecting, spectrometer, geol, mag and geochem surveys, trenching, dd..<br>**1971–72**: Pan Ocean Oil L acquired 'Dynamic Group' of companies; airborne, mag, geochem (soil sampling and radon).<br>**1975–76**: optioned to Cominco L; geoph and rad surveys, dd.<br>**1977–78**: expl deferred pending outcome of environmental studies. Cominco dropped option.<br>**1979–82**: geol, geoph, geochem, dd. | ***(a) 68–2 deposit***:<br>1,000,000 lbs $U_3O_8$, 2,000,000 lbs $MoS_2$ ***1975***<br>***(b) 68–1 deposit***: 200' x 150' at 0.04% $U_3O_8$, some Mo to 50-80' ***1970***<br>***69–9 A deposit***: 50' x 8' at 0.2% $U_3O_8$ ***c1970 (c)***<br>***74–1W deposit***: 500' length with extensive mineralization across important thicknesses.<br>***(d) 68–4 deposit***:<br>1,000,000 lbs $U_3O_8$ to 300' ***1975***<br>(Dynamic Mng Expl L, 1975 AR; DIAND MIR 1969–70 Vol 2, p 76 and /EGS 1978–5, p 18) | Hole KZ–10 on showing 74–1W, which intersected significant U mineralization to 600', was deepened in 1979 and intersected U zones between 596' and 1,140' (372' at 2.6 lb/t $U_3O_8$ including 18' at 16.2 lb/t $U_3O_8$). This was done to test theory that potential lies at contact with basement at 1,000–1,100' depth. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 7 | SHEAR LAKE<br>588982 Ontario Inc. (subsid of Corona Corp)<br>65 G/7, 8<br>61°18'25" 98°30'15" | Mineralization is principally contained in east–trending fractures, faults and breccias in Proterozoic meta-quartzite. Gold-bearing pyritic vein fillings are vertically zoned through the deposit. | **1946–48**: staking, trenching, dd.<br>**1961–63**: trenching, bulk sampling, dd.<br>**1972–78**: restaking, dd.<br>**1977–79**: airborne mag & EM, ground mag, trenching.<br>**1982–85**: dd, ore zone discovered, 1,400' decline to 220' level; metallurgical testing; started milling dev ore mid–1984 at nearby Cullaton mill; mine closed fall 1985. | Dd–ind: 1,050,000 at 0.21 oz/t Au ***1984***<br>(CMH 1985–86, p 335) | Shear Lake mine, 4 km SSW of Cullaton Lake and 4 km N or Cullaton B zone. The ore can be pre–concentrated to approx 0.45 oz/t Au. |
| NWT. 8 | CULLATON MINE<br>588982 Ontario Inc. (subsid of Corona Corp)<br>65 G/8<br>61°16'30" 98°29'30"<br>(B–zone portal) | B–zone deposit is a structurally controlled Archean mesothermal gold deposit hosted in chert magnetite iron formation. Ore shoots are characterized by variable concentrations of pyrrhotite and accompanying silicification, carbonatization and chloritization. | **1861–63**: discovery, staking trenching, mag surveys, dd.<br>**1973–78**: airstrip, decline strated, surface and u/g dd, leaching tests, metallurgical tests.<br>**1980–86**: spiral ramp and decline to 525' level; u/g dev + dd; produced 77,783 oz Au from 251,000 t milled during 1981–84; operation closed in fall 1985. | Proven–prob: 89,600 at 0.49 oz/t Au ***1984***<br>(CMH 1985–86, p 355) | The mine (B–zone) lies 8 km SSW of Cullaton Lake and 320 km SW of Baker Lake. |
| NWT. 9 | HENINGA LAKE<br>Breakwater Res L<br>65 H/16<br>61°46'25" 96°12'10" | Sulphide zone 850 m long contains three lenses of massive py–cp–sph, po and some magnetite in felsic pyroclastics interbedded in Archean mafic to intermediate flows. | **1948**: shallow dd, pros–pecting.<br>**1960–61**: mapping, trench–ing, Cu–Zn soil survey with negative results.<br>**1972–76**: boulder sampling, ground EM, mag, dd.<br>**1977–81**: geoph, dd, environmental impact study. | Ind: 6,000,000 at c 1.3% Cu, 9.0% Zn, 2.0 oz/t Ag, 0.03 oz/t Au ***1982***<br>(NM 25/03/82) | Heninga Lake is 128 km NE of Cullaton Lake gold mine; plans dd. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 10 | FERGUSON LAKE<br>Cdn Nickel CL<br>65 I/15<br>62°52'00" 96°50'30" | Disseminated and semi–massive po and cp concentrations in a metamorphosed Archean ultramafic intrusion that intruded Achean granitic gneisses. | **1950**: concession granted to Inco.<br>**1951–52**: expl.<br>**1953–54**: dd mineralized zone to 800' depth.<br>**1979–82**: geol, geoph, geochem surveys, dd. | 7 300 000 mt at 0.8% Cu, 0.7% Ni ***1954***<br>(DIAND, NM 1, p 34, 1983) | Ferguson Lake is about 224 km W of Rankin Inlet; deposit probed to a depth of 250 m along strike of 7 700 m by dd in 1952–54.<br>The area was mapped and sampled for PGE in 1986–87 by Homestake Mnrl Dev CL. |
| NWT. 11 | LAC CINQUANTE (LGT)<br>(YATHKYED LAKE)<br>Abermin Corp<br>65 J/10<br>62°32' 98°38' | Unconformity–vein type uranium deposit at the margin of Helikian Dubawnt Group sediments and hosted in the underlying Archean tuffaceous and exhalative metasediments. The deposit is stratabound and is delineated as several thin moderately plunging shoots within the interflow metasediments. | **1975–77**: airborne radiometric, magnetic and VLF–EM survey, staking; ground scint, mag and EM surveys and geochem till sampling.<br>**1978–82**: geol, geoph, geochem surveys, dd. | Dd–ind: 387,619 at 1.05% $U_30_8$ plus 141,934 inf at 1.24% $U_30_8$<br>(Abermin Corp Info booklet, 30/12/85 | The resources were outlined by dd in a nearly vertical zone 3,600' long to a depth of 750'. Difficult to mine without substantial dilution. |
| NWT. 12 | KIGGAVIK (LONE GULL)<br>Urangesellschaft<br>Can L<br>66 A/5<br>64°17' 97°36' | Unconformity related vein–type deposits located near the faulted margin of the Thelon Basin. Mineralization is hosted in multiple lithologies. Archean feldspathic wacke and minor pelite, Archean/Proterozoic? orthoquartzite, a Proterozoic W-Mo bearing porphyritic granite and Dubawnt group syenitic dykes. | **1974–75**: initial field geophysical–geochemical discovery.<br>**1977**: drill discovery.<br>**1978–80**: dd, biological study.<br>**1981–85**: prospecting, geol, geoph, geochem, gravity, dd.<br>**1986–88**: dd.<br>**1988–89**: feasibility study. | 2.99 million mt at 0.61% $U_3O_8$<br>(DIAND EO 1988 NWT, p 1) | Property 72 km W of Baker L; most U mnrl'n close to surface, down to 175 m; amenable to o/p mng.<br>Kiggavik is a joint venture project with CEGB Expl (Can) L and Daewoo Corp of Korea, with prod startup poss in 1994. |

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| NWT. 13 | LOST LAKE (SH)<br>Urangesellschaft Can L<br>66 G/8<br>65°16' 96°20' | Syngenetic but remobilized uraninite dissemination within thinly interbedded arkose-siltstone-mudstone of the upper Aphebian Amer group. The showing is near the Thelon unconformity and this Aphebian mineralization may have been upgraded by processes similar to unconformity related vein type uranium mineralization. | **1977**: VLF EM, IP, geochem.<br>**1979**: dd.<br>**1984**: VLF EM, mag, geochem. | 900 000 mt at 0.104% $U_3O_8$ ***1979***<br>(DIAND MIR 1984–85, NWT, p 122) |  |
| NWT. 14 | AMER LAKE<br>Canterra Energy L (in 1985)<br>66 H/10<br>65°32'48" 96°45'00" | Stratiform and stratabound uraninite in folded arkosic and pelitic metasediments of the Aphebian upper Amer group. Locally mineralization is remobilized along fractures. | **1969–70**: acquired by Aquitaine, airborne and ground rad surveys, dd.<br>**1977**: optioned to Cominco L. | Proven mineralized lenses of 600–1 525m with typical intersections of 0.05–0.12% $U_3O_8$ over 1–2m. | Amer Lake is located about 114 km NNW of Baker Lake.<br>The ground was open in 1989. |
| NWT. 15 | VENUS<br>Cominco L<br>68 H/7<br>75°19'25" 97°08'30" | Gal and sph as vugs, disseminations and massive veins up to 3' wide in the upper portion of the Ordovician Thumb Mountain Formation dolomite. | **1971–72**: discovery, geol mapping, geophysics, geochem, dd. | 400'–500' x 60'–80' at 30% Pb–Zn 1972<br>(DIAND AF 080016, 1971–72) | Deposit located on Truro I, about 10 km SW of Polaris deposit on Little Cornwallis Is. |

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| NWT. 16 | ECLIPSE<br>Cominco L<br>68 H/9<br>75°32'30" 96°09'00" | Sph, gal, py, considerable smithsonite and minor Fe oxides as open space filling in a calcite gangue between breccia fragments in brecciated dolomite and limestone of the Ordovician Thumb Mountain Formation. | **1960–72**: discovered by Bankeno ML, sampling, dd, geol mapping, soil geochem survey, gravity survey, several anomalies outlined. | ***(i) West Breccia zone***: 1,000,000 at 12.43% Zn, 2.18% Pb to 50'<br>***(ii) East Breccia zone***: 170,000 at 3.60% Zn, 0.5% Pb ***plus*** 265,000 at 3.45% Zn, 2.19% Pb ***1969***<br>(DIAND MIR 1969–70, Vol 2, p 166; Bankeno ML, 1972 AR) | Deposit on eastern lobe of Little Cornwallis Is. |
| NWT. 17 | NICKEL KING (THYE)<br>W. Kizan<br>75 A/7<br>60°15'30" 104° 31'40" | Nickeliferous po, cp, minor pentlandite diss in gabbroic bodies intruding Proterozoic metasediments. The main zone consists of two norite sills. | **1952–53**: staking, geol, EM and mag surveys, dd.<br>**1975**: restaking. | 1,000,000 at 0.9% Ni, 0.25% Cu, 0.09% Co, 0.05 oz/t Ag ***1981***<br>(Highwood Res L, 1981 AR) | Located on Thye Lake. Under option by Solid Res L in 1989. |
| NWT. 18 | O'CONNOR LAKE<br>(M.W.K. – ZONE #1)<br>C Williams<br>75 E/5<br>61°19'36" 111°47'30" | Two qtz–carb, shear–hosted veins crosscut biotite and amphibolite gneisses of the Archean Yellowknife Supergroup . Vein mineralogy consists of gal-sph and minor py––cp. | **1948–52**: trenching, dd, shaft to 180', lateral work on 150 level, shipped 1,5000 tons cobbed ore to Vancouver in 1952.<br>**1966**: restaking. | Ind: 67,950 at 12% Pb–Zn to 250'<br>(Amer Yellowknife ML, 1953 AR; NM 01715/53) | Property 184 km SE of Yellowknife. |
| NWT. 19 | MacINNIS LAKE<br>(DASSAULT DEPOSIT)<br>Kelmet Res L<br>75 E/8<br>61°20'53" 110°14'10" | Narrow veins and disseminations of pitchblende with associated chlorite, calcite, hematite, qtz, py, cp and gal in Aphebian Nonacho sediments. | **1955**: prospecting, scint survey, dd.<br>**1968**: geol and scint work.<br>**1981–82**: lake sediment and soil sampling by PNC Expl (Can) CL. | 27 000 mt at 0.17% U ***1956***<br>(GSC P 80–18, p 114) | Deposit on W side of MacInnis Lake, 240 km SE of Yellowknife. A narrow high–grade zone more than 100' long, up to 6' wide tested to depth of 150'; highest value in dd core was 0.84% $U_3O_8$ across 2'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 20 | SALKELD LAKE<br>Fortune Mnrls L<br>75 F/5<br>61°27' 109°51' | Quartz-sulphide veins cutting Aphebian Nonacho Group sediments and granitic basement rocks. | **1950s**: explored for U.<br>**1988**: sampling | ***(i) Shear zone:*** 59,000 trench & dd-ind at 1.42% Cu, 1.74 oz/t Ag<br>***(ii) Stockwork***: 64,405 dd-ind at 0.63% Cu (incl 35,052 at 1.05% Cu)<br>***1989***<br>(DIAND AF 082821) |  |
| NWT. 21 | SACHOWIA LAKE<br>(GOGO)<br>Copper Pass ML<br>(c 1985)<br>75 L/5<br>62°24'40" 111°51'30" | Lens of massive niccolite, some cobaltite and calcite in felsite breccia in fracture zone cutting Archean metavolcanics and granite dykes, near diabase dyke. | **1940, 1950**: staking.<br>**1957**: dd determined tonnage.<br>**1965, 1969**: restaking, several shipments of bagged niccolite from open cut.<br>**1970**: 3 ddhs. | Ind: 5,000 at unstated Ni–Co–Bi grade ***c 1969***<br>(GSC P 70–70, p 19, 1972) | Some material removed graded 27.5 to 37% Ni. The 1970 dd failed to prove depth or continuity. |
| NWT. 22 | BBX<br>Greenstrike Gold Corp<br>75 L/12<br>62°34'55" 111°33'30" | Sulphides in volcanic breccia pipe cutting Aphebian sediments include cp and smaltite. (Cu, Ag, Au, Co, Ni, Pb values present). | **1948–49**: staking, trenching, dd.<br>**1956**: dd.<br>**1971–74**: mapping, sampling, geochem, IP and mag surveys, dd. | 5,000 at 6.13% Cu, 2.6 oz/t Ag ***1972***<br>(DIAND, EGS 1975–8, p 30) | Located near Taltheilei Narrows, East Arm of Great Slave Lake. |

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| NWT. 23 | KENNEDY LAKE<br>Initiative Expls Inc<br>75 M/2<br>63°01'57" 110° 56'57"<br>("BB" zone) | The "BB" zone is a generally conformable lens in qtzite and garnet–bearing qtz–biotite gneiss localized by folds and faults at the upper part of a felsic volcanic sequence and overlain by limestone and tuff zone. Massive sulphides consists of sph, po, py, plus minor gal, cp,mag and tetrahedrite in qtz gangue.<br>At Kennedy Lake Copper Deposit thin stringers of cp and po occur in fractures in an alteration zone. | **1948–67**: discovery ("BB" zone), stripping, trenching, dd, geol mapping, geoph surveys includes ground EM.<br>**1975**: claims covering BB deposit taken to lease.<br>**1984–85**: mag, HEM surveys.<br>**1989**: dd. | ***(i) "BB" zone***: 970,000 ind at 9.5% Zn, 0.7% Pb, 3.4 oz/t Ag, 2 lb/t Cd to 650'<br>***(ii) Kennedy Lake***: 43,000 ind at 7.3% Zn, 1.1% Pb, 4 oz/t Ag ***or*** 70,000 at 6% Zn, 1% Pb, 5 oz/t Ag to 250'<br>***(iii) Kennedy Lake Copper***: 612,000 at 1.12% Cu ***or*** 1,500,000 at 0.62% Cu with Ag values to 400' ***c 1974***<br>(GSC Open File 239, 1974; NM 10/01/74; CMH 1969–70, p 177) | Property 16 km N of the East Arm of Great Slave Lake. Optioned in 1989 by Ego Res L which can earn 100% int by April 1992. |
| NWT. 24 | SUSU LAKE<br>Initiative Expls Inc<br>75 M/2<br>63°00'40" 110° 47'30" | Cp, bornite, some qtz, calcite and ankerite in a sheared and brecciated zone in rhyolite of the Archean Yellowknife Group. | **1966**: staking, trenching, 9 ddhs. | Ind: 142,500 at 0.95% Cu to 175' ***c 1967***<br>(FP Surv Ms 1968, p 111) | Property 9 km ESE of Kennedy Lake. Optioned 1989 by Ego Res L. |
| NWT. 25 | DEB<br>Noranda Expl CL<br>75 M/14<br>63°53' 111° 05' | Volcanogenic massive sulphide deposit containing sph–cp hosted by felsic volcanics of the Archean Courageous Lake Volcanic Belt. | **c 1977–80**: dd. | 1,118,000 at 0.83% Cu, 2.96% Zn, 0.64 oz/t Ag (NM 18/01/88) | A long thin deposit with fair grade on peninsula in MacKay Lake about 16 km S of Tundra mine. |

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| NWT. 26 | SAUCER LAKE (BS)<br>Roxwell GML<br>76 D/3<br>64°00'37" 111°09'53" | Au, asp, py, po, scheelite associated with qtz veins at or near the contact of meta-volcanics and metasediments of the Courageous Lake volcanic belt within the Archean Yellowknife Supergroup. | **1945–46**: discovery, trenching.<br>**1950**: dd.<br>**1958**: dd, mapping, trenching, sampling.<br>**1973**: trenching, EM and mag survey.<br>**1976**: EM survey and soil sampling.<br>**1981–85**: EM, mag, IP, dd.<br>**1987**: dd. | 138,500 proven at 0.13 to 0.15 oz/t Au ***plus*** 210,000 prob, in two zones ***1958*** (Roxwell GML prospectus 7/03/83, p 14 and NM 19/01/84) ***or*** 500 000 at 0.17 oz/t Au (GCNL 4/06/87) | Saucer Lake is 2.4 km S of Tundra mine; tonnage in Saucer and Perrson zones; optioned to Cominco L in 1984.<br>Dd in 1987 by Bow Valley Industries L, under option, testing the downdip extension of Perrson zone. |
| NWT. 27 | TUNDRA (FAT)<br>Total Energold Corp (50%)<br>Hemlo GM Inc (25.5%)<br>Noranda Expl CL (25.5%)<br>76 D/3<br>64°06.7' 111°16.3' | Two auriferous zones with asp, py and po assoc with felsic volcanics near felsic/sedimentary interface of Archean Courageous Lake volcanic belt. | **1976**: airborne EM and mag.<br>**1977–78**: staking, geol, EM, mag and gravity surveys.<br>**1981–85**: geol, mag, EM, IP, dd, down-hole resistivity survey.<br>**1986–88**: dd.<br>**1988–89**: shaft to 1 550', u/g dd, bulk sampling. | ***(i) Tundra zone***:<br>32,500,000 at 0.20 oz/t Au (0.12 oz/t cutoff) ***or*** 4,000,000 at 0.40 oz/t Au (0.29 oz cutoff) ***1988*** (Total Energold Corp, 1988 AR)<br>***(ii) Carbonate zone:*** (prelim): 1 million at 0.35 oz/t Au (Savanna Res L, 1985 AR) | Plan to complete a feasibility study by mid–1990. |
| NWT. 28 | TUNDRA MINE<br>Giant Yellowknife ML<br>76 D/3<br>64°02'12" 111°11'36" | Gold–bearing qtz veins lie along or adjacent to a conformable contact between sedimentary and volcanic rocks of the Yellowknife Group or entirely within volcanic rocks. Small amount of asp, po, gal, scheelite and ferberite. | **1945–52**: discovery, airstrip, dd, stripping, trenching, shaft collared.<br>**1957–68**: shaft to 1,250', 8 levels; prod 104,474 oz Au during 1964–68.<br>**1973–74**: geol study, geoph and geochem surveys. | 5,000 tons of broken low grade (0.5 oz/t Au) plus many unbroken tons of similar grade (Tundra GML, 1968 AR, and prospectus 25/10/79) | Property at S end of Matthews Lake, about 240 km NE of Yellowknife. Giant Yellowknife bought Tundra's 110 tpd mill and property to complement Salmita. |

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| NWT. 29 | JAX LAKE<br>Courageous Expl L<br>76 D/6<br>64°18'25" 111°24'45"<br>(#1 Zone) | Gold–bearing qtz vein or siliceous zones, generally in sheared amphibolite at or near the metavolcanic–metasedimentary contact within the Courageous Lake volcanic belt. Small amount of py, asp, gal. | **1945–46**: discovery, trenching, dd.<br>**1960–61**: dd, mapping and sampling.<br>**1973–75**: mag, EM and geochem surveys, trenching and mapping.<br>**1978**: dd, geochem and geoph surveys.<br>**1979–80**: dd.<br>**1982–85**: geochem, geoph.<br>**1986–87**: dd. | ***(i) No 1 zone***: (a) 250' x 2.9' at 0.4 oz/t Au; (b) 200' x 3.3' at 0.24 oz/t Au<br>***or*** 40 000 at 0.41 oz/t Au (GCNL 29/04/86)<br>***(ii) No 2 zone***: 190' x 3.0' at 1.6 oz/t Au (cut) ***1960***<br>(Ace Parker 28/05/80 for Perry River Nickel ML ***in*** VSE SMF 18/09/80) | Property N of Courageous Lake about 250 km NE of Yellowknife.<br>Aber Res L can earn 70% int. |
| NWT. 30 | SOUR LAKE<br>Courageous Expl L<br>76 D/6<br>64°17'45" 111°24'25" | Asp, py, Au in siliceous gangue at volcanic–sedimentary contact of Archean Yellowknife Supergroup rocks. | **1945–**: see Jax Lake above.<br>**1983–84**: geol, geoph and geochem surveys, some dd.<br>**1985**: geoph, geochem, dd.<br>**1986–88**: IP survey, dd. | 115' x 1.7' at 1.98 oz/t Au ***1960***<br>(Ace Parker Professional Corp 28/05/80 for Perry River Nickel ML ***in*** VSE SMF 18/09/80) | The zone at Sour Lake is probably the Jax No 5 zone.<br>Under 60% int option by Bow Valley Industries L since 1987. |
| NWT. 31 | BUTTERFLY LAKE<br>(AU 23, 24)<br>Aber Res L<br>76 E/10<br>65°36.5' 110°47.0' | Au, prob with asp, po, py in an Archean silicate–facies iron formation. | **1962–64**: aeromag survey, prospecting.<br>**1985–86**: AEM, mag, VLF–EM, HLEM.<br>**1987**: dd. | 140 000 at 0.5 oz/t Au in Dune deposit ***1987***<br>(GCNL 28/09/87) | Cominco L and Cogema Can L can jointly earn 70% int and have been working on the property since 1985. |
| NWT. 32 | JON DEPOSIT<br>Cominco L<br>76 E/10<br>65°34.4' 110°55' | Archean silicate–facies iron fm in area underlain by predominantly by metamorphosed argillites and greywackes of the Yellowknife Supergroup;. Small bodies of granite and NW-trending diabase dykes intrude the sed. | **1962–64**: aero– and ground–mag by Can Nickel Co L.<br>**1987–88**: unspecified expln by Cominco. | Au N/A | "Believed to be the most significant mineralization yet located outside the Lupin mine". (Aber Res L, 1988 AR).<br>Ownership of the property was subject to dispute in 1989. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 33 | PAN (BARB)<br>Aber Res L<br>76 E/11<br>65°39'45" 111° 12'30" | NW striking Au–bearing zone consisting of sulphides (po–asp–po–cp), in Archean silicate facies iron formation, is underlain by amphibolite and meta-sediments of the Yellowknife Supergroup. | **1983–84**: dd geoph targets and Au occurrences; surface sampling.<br>**1985–86**: VLF, mag, max min, dd.<br>**1987**: dd. | 425' x 9.3' at 0.25 oz/t Au ***1983***<br>(NM 21/06/83) | Optioned in 1987 by Lysander Gold Corp. |
| NWT. 34 | GONDOR<br>Noranda Expl CL (60%)<br>Kidd Creek ML (40%)<br>76 E/12<br>65°33'43" 111° 48'00" | Deposit is a Zn–Ag–Pb–Cu stratabound volcanogenic massive sulphide lens occurring within Archean felsic to intermediate volcanoclastic rocks of the Yellowknife Supergroup. Sulphide lens lies in the hinge zone of large scale regional Z–fold. Mineralized zone is medium– to coarse–grained, well banded and composed of py–qtz–sph with subordinate gal–cp. | **1976–77**: staked by Noranda following regional airborne survey (EM, mag).<br>**1977–80**: prospecting, ground geoph.<br>**1981**: optioned by Kidd Creek, VLF, HLEM, mag, gravity; massive sulphides discovered by dd the conductor.<br>**1982**: dd. | 7 500 000 mt at 6% Zn, 50 g/t Ag, less than 1% Pb + Cu ***1985***<br>(CIM Bull Apr/85, p 53) | Property is 34 km SW of Contwoyto L. Deposit tested by dd over a strike length of 900 m and up to 350 m down dip. Values of 3.5 to 5.3% Zn, 0.7 to 1.7 oz/t Ag over width of 6 to 14 m, in 3 holes. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 35 | HACKETT RIVER<br>Etruscan Enterprises L (46.99%)<br>Cominco L (53.01%)<br>76 F/16<br>65°55'55" 108° 27'30" | Massive to disseminated py, po, sph, gal, mag and locally gahnite (zinc spinel) in a series of bands of cherty tuffite, chert and cherty tuffite, chert and cherty rhyolite, near the top of a sequence of inter-mediate to felsic volcanics, overlying metasediments of the Hackett River gneiss dome. | **1956**: discovery, trenching, geoph work.<br>**1966–75**: geol mapping, airborne and ground EM and mag surveys, gravity, soil sampling, dd (optioned by Cominco in 1970).<br>**1975–76**: metallurgical testing and transportation studies; relogging and study of dd core.<br>**1980–81**: dd encountered higher grades in two of the zones.<br>**1988**: mag, VLF EM, HEM. | ***(i) "A" zone***: 4 to 5,000,000 at 8.5% Zn, 1.4% Pb, 7 oz/t Ag, 0.25% Cu, 0.05 oz/t Au to 600'.<br>***(ii) "Cleaver" zone***: 4,000,000 at 7.07% Zn, 1.04% Pb, 5.34 oz/t Ag, 0.46% Cu, 0.014 oz/t Au<br>***(iii) "Cleaver Low Grade"***: 4,000,000 at 1.08% Zn, 0.84% Pb, 0.97 oz/t Ag, 0.48% Cu<br>***(iv) "Boot zone"***: 5,000,000 at 4.97% Zn, 0.99% Pb, 5.86 oz/t Ag, 0.29% Cu, 0.014 oz/t Au plus 2,000,000 tons of lower grade ***1974***<br>(A E Nevin 08/08/75 for Bathurst Norsemines L, ***in*** VSE SMF 12/08/75) | Tonnage figures for the zones are drill–indicated–positive; the total indicated on the property is 21 million tons at 0.013 oz/t Au, 4.37 oz/t Ag, 0.41% Cu, 0.75% Pb, 4.98% Zn (NM 21/02/80, p 4).<br>Cominco can acquire a 60% int by the end of 1999 on making explor expenditures and cash payments. |
| NWT. 36 | MUSK GROUP<br>Noranda Expl CL<br>76 G/5<br>65°19'20" 107° 36'00" | Volcanogenic massive sulphide deposit lying near the top of the Archean Hackett River volcanic belt, which consists mainly of felsic volcanics with subordinate basalt. A W–NW–striking gossan zone formed from pyrite–po with subordinate sph–cp and gal is found on the north end of the MUSK GROUP. | **1974–75**: staking over AEM Input anomalies; geol & geoph mapping.<br>**1978–79**: VLF–EM, geol mapping; mag, EM and gravity surveys; dd.<br>**1980**: dd. | 340 000 mt at 10% Zn, 1.4% Pb, 1.2% Cu, 343 g/t Ag<br>***1981***<br>(Noranda ML, Yellowknife Geoscience Forum, Dec/81) | Property lies 32 km SE of Yava deposit. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 37 | YAVA<br>Westmin Res L<br>76 G/12<br>65°36'10" 107°56'00" | Both massive and stringer mineralization (sph–cp–py–gal) in siliceous carbonate-bearing felsic volcanics on the opposite limb of the syncline from the Hackett River property. Massive zone is 500' x 30' to 110' thick to depth of 272 ± '. Massive sulphides grade 26% Zn, 10% Ag over thickness of 1.5' to 3.5'. The Yava deposit represents a volcanogenic massive sulphide hosted by the Archean Hackett River Greenstone Belt. | **1972–73**: geochem anomaly found and studied by GSC.<br>**1974–75**: surface expl, geol, geoph and geochem surveys, dd. | 1–2 000 000 mt at 0.5% Cu, 0.5% Pb, 3% Zn, 102.8 g/mt Ag, 2.0 g/mt Au ***1976***<br>(W Gibbins *in* Can Soc Petr Geol, Mem 8, p 118, 1982) | Property lies 48 km S of Hackett River deposits, in the Beechy Lake area. |
| NWT. 38 | GEORGE LAKE<br>Kerr McGee &<br>Homestake Mnrl Dev C<br>76 G/13 | Auriferous magnetite iron formation. | **1983–89**: geoph, dd, geol, geochem. | Au N/A | Good gold values encountered over a wide area by widely spaced ddhs.<br>Operated by Trigg, Woollett Olson Consulting Ltd. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 39 | HIGH LAKE<br>Kennarctic Explns L<br>76 M/7<br>67°22'45" 110°51'19" | Sulphide lenses (py, po, cp, sph, gal), within extensive alteration zone, in felsic and intermediate pyroclastics in a belt of metavolcanics of Yellowknife Supergroup.<br>The mineralization is cut by a diabase dyke and contains two main zones about 2,000' apart. | **1956–59**: mapping, airborne EM and mag, plus ground EM, dd. | ***(i) D zone***: c 2,800,000 at 3.6% Zn, 2.0% Cu, 0.2% Pb, 1.1 oz/t Ag, 0.02 oz/t Au<br>***(ii) AB zone***: c 2,400,000 at 5.4% Cu, 1.1% Zn, 0.03 oz/t Au<br>***1973***<br>***or*** 5,206,856 at 3.53% Cu, 2.46% Zn, 0.023 oz/t Au, minor Ag and Pb for both zones combined<br>***1967***<br>(NM 30/03/67, p 5; GSC OFR 239, 1974) | Property 30 mi S of Coronation Gulf, E of Bathurst Inlet. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 40 | CORONATION GULF<br>Canuc Res Inc<br>76 M/11<br>67°42'40" 111° 22'20"<br>(North Vein Central) | Numerous N to NE Au-bearing qtz vein zones hosted by a wide composite body of plutonic rock; sulphs in veins include py, cp, gal; veins occur in shear/fracture zones, in part within a migmatitic and dioritic border zone of the Anialik River granitic gneiss that intrudes the Yellowknife Supergroup. | **1963–66**: discovery, trenching, sampling, dd.<br>**1973–74**: dd.<br>**1975**: optioned by Giant Yellowknife ML, dd.<br>**1976–77**: dd, follow-up geoph survey, Giant Yellowknife dropped option.<br>**1979**: Coronation G Expls option; EM and mag survey, dd, sampling mostly on North vein.<br>**1980–81**: transit survey, sampling, dd.<br>**1980–84**: surface sampling, mapping, bulk sampling, geoph, dd.<br>1986–89: VLF, geochem, dd. | ***North Central Vein***: 706,200 at 0.21 oz/t Au ***1986***<br>***Fred Vein***: 153 800 at 0.25 oz/t Au ***1986***<br>***or*** potential in these two veins and their extensions: 2 million tons ***1988***<br>(Dore Norbaska Res Inc, 1988 AR)<br>***No 1 vein***: 250' x 4' at 0.69 oz/t Au in one shoot, based on trenching.<br>***No 3 vein***: 186' x 4.1' at 0.45 oz/t Au in one zone, based on dd ***1966***<br>***East Boundary vein***: (i) 350' x 3.44' at 3.7 oz/t Au, 8.74 oz/t Ag; (ii) 400' x 4.7' at 0.85 oz/t Au ***1974***<br>(E O Chisholm 30/01/74, for Arcadia Expls ***in*** VSE SMF 04/03/74; GSC P 66–52, p 39: NM 20/03/75 and 25/10/79) | Coronation Gulf is located on the Arctic Coast; Au content extremely erratic in veins; North Vein Central appears to have best potential. Canuc Res earned title in 1980–81, but New Arcadia Expl L retained 20% non participation interest.<br>Orofino Res L can earn a 70% int in the property. |
| NWT. 41 | PISTOL LAKE<br>Silver Hart ML<br>76 N/2<br>67°02'55" 108° 47'10"<br>(F zone) | Two large isoclinically folded Au-bearing amphibolitic and magnetite-chert iron formations of Archean age, outlined by dd; Au assoc with asp, po, py. | **1964**: staking.<br>**1967**: trenching, dd.<br>**1980**: geol, trenching.<br>**1984–88**: dd. | Dd-ind: 580,000 at 0.406 oz/t Au<br>(Silver Hart ML, News Release 03/01/86) | Optioned in 1988 by Chevron Mnrls L. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 42 | TURNER LAKE<br>Silver Hart ML<br>76 N/2<br>67°13.0' 108° 57.7' | Gold occurs in meta–arsenite lenses up to 30m thick within amphibolite. Best values are in a fold structure assoc with qtz tension veins. Gold is native or with asp and po. | **1964–65**: tr., sampling, dd.<br>**1967**: sampling.<br>**1986**: helicopter, mag–EM.<br>**1987**: dd. | 1,300,000 at 0.156 oz/t Au ***1987***<br>(Silver Hart ML letter to shareholders, 22/12/87) | Optioned in 1988 by Chevron Mnrls L. |
| NWT. 43 | GREAT SLAVE REEF (AX–WD)<br>Westmin Res L (40%)<br>Du Pont of Can Expl L (50%)<br>Philipp Bros (Can) L (10%)<br>85 B/11<br>60°44'15" 115° 03'15" (X–25 zone) | Mississippi Valley type ore deposit consisting primarily of sph–gal–py–marcasite hosted by Mid–Devonian Presqu'ile dolomite of the Pine Point Fm. | **1975–79**: grid dd along favourable trend led to discovery; geoph (includes IP) and geochem, fill–in dd and water pumping tests in 1979 to determine cost of dewatering X–25 zone.<br>**1980–83**: engineering studies; dd. | ***(i) X–25 zone***: 2,583,000 at 10.3% Zn, 2.73% Pb ***1980***<br>***(ii) V 46 zone***: 600,000 ind at 8% Pb–Zn ***1978***<br>***(iii) R 190 zone***: 1,233,400 at 11.59% Zn, 6.42% Pb ***1980***<br>***or*** 2,300,000 at 20% Pb–Zn for the three zones combined ***1983***<br>(Western ML, 1978 AR; and Info Circ 15/480; NM 03/03/83, p B22) | Seven deposits contain 8.0 million tons geological reserves at 10.3% Pb–Zn (Du Pont 1980 AR). Adjoins W of Pine Point ML. Mineralization in X–25 zone occurs between 337' and 600'. Explor in 1983 ind additional deposits along Main Hinge trend. |
| NWT. 44 | PINE POINT<br>Pine Point ML<br>85 B/15, 16<br>60°50' 114° 27' | Near–surface carbonate barrier reef complex (Mississippi Valley type ore deposits), consisting primarily of sph–gal–py–marcasite hosted by the mid–Devonian Presqu'ile dolomite of the Pine Point Fm. | **1898**: disc.<br>**mid–1940s**: expl.<br>**1951–54, 62–64**: dd.<br>**1964–88**: mined/milled 72 Mt at 5.8% Zn, 2.2% Pb. | 16,178,000 o/p at 2.3% Pb, 4.4% Zn ***plus*** 595,000 u/g at 7.0% Pb, 12.6% Zn ***1986***<br>(Pine Point ML, 1985 and 1986 ARs) | These resource figures represent deletions made by Pine Point ML in 1985 and 1986 from their published total reserves for unspecified deposits. Only 48 of the 93 Zn–Pb deposits, defined throughout the large 65 km by 20 km property, have been mined thus far, all but two of them by open pit. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 45 | BEST BET (DREVER LAKE)<br>Equinox Res L<br>85 I/1<br>62°13'42" 112° 18'05" | Pegmatite sill and dykes in nodular qtz–biotite schists (metasediments) of Archean Yellowknife supergroup; pegmatite contains amblygonite, spodumene, qtz, cleavelandite, muscovite, columbite–tantalite and minor cassiterite and beryl. | **1944–48**: staking, open cuts, 1.9 tons treated in small pilot plant at Moose property.<br>**1953–54**: mng from open cuts, dd; milling at Moose property.<br>**1975**: staking, expl for Cdn Superior Expl L in area. | 42,700 at 2% $Li_2O$ to a projected 100' depth based on surface geol evidence ***1975***<br>(DIAND AF 080279 ***and*** Energy, Vol 3, p 406, 1978) | The Moose group is 7 km SE of Best Bet on N side of Hearne Channel. |
| NWT. 46 | MOOSE NO 2 DYKE<br>Hemisphere Dev Corp (50%),<br>Highwood Res L (50%)<br>85 I/1<br>62°10'46" 112° 12'42" | Two irregularly zoned pegmatite dykes hosted within metamorphic aureoles developed by granite batholiths that intruded Archean sediments of Yellowknife Supergroup.<br>The dykes contain spodumene, amblygonite, qtz, cleavelandite microline, muscovite, beryl and columbite–tantalite and minor cassiterite. | **1942**: scheelite found, staking.<br>**1943**: pegmatites discovered.<br>**1945–46**: quarries, pits, 40' shaft, mill.<br>**1947–48**: small prod Cb–Ta–Sn.<br>**1952–54**: prod from enlarged mill.<br>**1963**: surveying.<br>**1978**: restaking, economic evaluation.<br>**1981**: prospecting, biogeochemical sampling, radiometric surveys, bulk sampling. | 700 000 mt at 7.44% $Li_2O$, 4–5 lb/t Ta to 200' ***1980***<br>(NM 05/06/80, p 8)<br>***or*** 571,666 Cb–Ta, grade unstated to 70'<br>(CMH 1989–90, p 226) | Property on north side of Hearne Channel about 115 km SE of Yellowknife. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 47 | **BUCKHAM LAKE**<br>(MUT, BIN 1, LENS 1)<br>Equinox Res L<br>85 I/2<br>62°13' 112°42' | Lithium occurs in small spodumene crystals evenly distributed in pegmatite dykes hosted by metasediments of the Archean Yellowknife Supergroup. | **1975**: staking, mapping, sampling, evaluation. | ***(i) Bin***: 990 T/VF or 99,100 at 1.75% $Li_2O$<br>***(ii) Lens***: 102,000 at 1.97% $Li_2O$<br>***(iii) Mut***: 250 T/VF ***or*** 24,600 at 2.2% $Li_2O$ ***1975***<br>(DIAND AF 080277, 080278 and 080280; Energy, Vol 3, p 406, 1978) | On SE side of SW arm of Buckham Lake, about 96 km SE of Yellowknife. Tonnage and grade based on surface work projected to depths up to 500'. |
| NWT. 48 | **THOR**<br>Highwood Res L<br>85 I/2<br>62°06'55" 112°35'35"<br>(T zone) | Thor Lake deposits (termed the Fluorite, Lake, R, S and T) are hosted in the geographic centre of a large Aphebian gabbroic to syenitic and granitic complex (Blatchford Lake Complex) of alkaline affinity. The deposit of immediate economic potential, the T-zone, is an autogreisenized pegmatite hosted by granite and syenite. The metasomatic nature of the mineralization has produced the complicated mineralogical zonation. Economic minerals include phenacite, bertrandite, xenotime, bastnaesite, synchysite, parisite, roentgenite, monazite, columbite and ashanite. | **1970**: staking, sampling for uranium potential.<br>**1976**: acquired by Highwood Resources..<br>**1977–79**: radon, mag, and airborne spectrometer surveys, prospecting, geol mapping, trenching, dd.<br>**1980–81**: dd, collected bulk sample; Be deposit discovered.<br>**1982–85**: gravity and berylometer surveys, metallurgical testing, dd; 1,600' ramp on T zone.<br>**1986–89**: beneficiation and marketing research, dd, sampling, feasibility study. | ***(i) Lake zone***: 70,000,000 ind–inf at 0.04% $Ta_2O_5$, 0.57% $Cb_2O_5$, 1.99% REE, 4.73% ZrO ***1986***<br>***(ii) T zone (North)***: 510,000 proven at 1.11% BeO, 0.17% $Y_2O_3$, 0.28% REE, 0.58% $Cb_2O_5$ and 60 000 at 8.24% REE ***1986***<br>***(iii) T zone (South)***: 1,250,000 proven at 0.62% BeO, <0.1% $Y_2O_3$, <0.2% REE, 0.46% $Cb_2O_5$ ***1986*** (Highwood Res L, 1986 AR)<br>***(iv) S zone***: 75,000 inf at 1.5% $Cb_2O_5$ and 0.05% $U_3O_8$ ***plus*** 75,000 prob ***1979***<br>(Highwood Res L, 1980 and 1981, ARs) | A 1979 estimate also indicated 1,286,000 at 0.013% $U_3O_8$ with a further 6–8 Mt prob in the T zone.<br>Development currently restricted to the T zone. Bulk sampling and u/g development on T zone (Be, REE).<br>Since 1986, Hecla Mng Co of Can L has financed metallurgical research and a feasibility study program and can earn 50% int in the project by arranging for financing and bringing to prod. This agreement will remain in good standing until Feb. 1990. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 49 | MURPHY (BB ZONE, BIGHILL LAKE)<br>Equinox Res L<br>85 I/5, 12<br>62°30' 113° 59' | Zone of spodumene–bearing pegmatite dykes in nodular qtz–biotite schists of the Archean Yellowknife Group. | **1955**: trenching, dd.<br>**1975–76**: mapping and sampling. | Inf: 7,888,000 at 1.47% $Li_2O$ to a projected 500' ***1977***<br>(Energy, Vol 3, p 406, 1978) | Property lies 21 km ENE of Yellowknife. Tonnage and grade based on surface work projected to depth; explor planned 1985. |
| NWT. 50 | PANCHO<br>Cons Powergem Res Corp L<br>85 I/5<br>62°29' 113° 33' | NW–trending spodumene–bearing pegmatite dykes cut Archean qtz–mica schist of the Burwash Fm–Yellowknife Supergroup. | **1957**: prospecting, mapping, staking. | ***Main dykes***: 1,500' x 20' at 15 to 20% spodumene<br>***Dykes No 2***: 2,000' x 1 to 3' at 20% spodumene ***1957***<br>(DIAND AF 017423) | Property 40 km east of Yellowknife. |
| NWT. 51 | ANN (REID LAKE)<br>Equinox Res L<br>85 I/6<br>62°28'00" 113° 25'25" | NW–trending amblygonite–spodumene–bearing pegmatite dyke, avg 40' wide, cutting knotted qtz–mica schist (Archean metasediments of Yellowknife Group). | **1955–56**: staking, trenching, sampling, dd.<br>**1975**: mapping and sampling of dykes. | Poss: 3,335,600 at 1.92% $Li_2O$ to a projected 500' ***1977***<br>(Energy, Vol 3 p 406, 1978) | Property about 48 km E of Yellowknife. Explor planned for 1985. |
| NWT. 52 | JAKE<br>Cons Amhawk Res Corp<br>85 I/6<br>62°25.4' 113° 21.7' | In this region spodumene and amblygonite occur in 13 pegmatite dykes that intrude a granodiorite near its contact with Burwash Fm metasediments of the Archean Yellowknife Supergroup. | **1962**: staking.<br>**1980–81**: geol mapping, sampling. | Poss: 2,000,000 at 1.12% $Li_2O$ **1981**<br>(NM 24/12/81, p 6) | At north end of Harding L, about 52 km SE of Yellowknife |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 53 | PAINT (HARDING LAKE)<br>Hemisphere Dev Corp<br>85 I/6<br>62°24'30" 113° 24'30" | Spodumene and amblygonite in NW–striking pegmatite dykes that cut a granodiorite pluton near its contact with Archean Yellowknife Supergroup metasediments; the largest dyke has been traced 2,400' in Archean granodiorite. | **1957**: aerial reconnaissance, geol mapping, prospecting and discovery of Li–bearing dykes.<br>**1979**: geol mapping, airphoto studies, geoph surveys and flotation tests on a bulk sample. | Ind: 2,774,162 at 1.75% $Li_2O$ to 500 m ***includes*** 593,000 at 6.15% $Li_2O$ in one dyke ***1980***<br>(NM 05/06/80, p 8) | On N shore of Harding Lake about 51 km SE of Yellowknife. Based on 1978–80 engineering reports. |
| NWT. 54 | AL GROUP<br>Gateway Ventures L (in 1970)<br>85 I/7<br>62°22'25" 112° 48'18" | Three E–W striking, moderately dipping qtz veins contain disseminated auriferous pyrite with minor scheelite in sheared and altered argillitic standstones of the Archean Burwasn Fm–Yellowknife Supergroup. | **1945**: staking, trenching.<br>**1958–59**: dd, 128' inclined shaft.<br>**1969**: channel sampling, dd. | 230' x 1' at 3.75 oz/t Au, minor $WO_3$ ***1958***<br>(GSC P 70–17, p 52) | Property 50 mi E of Yellowknife; dd in 1969 revealed nothing of economic interest. |
| NWT. 55 | BULLMOOSE LAKE (TA)<br>Mt Grant ML (option)<br>85 I/7<br>62°20'40" 112° 44'50" | Auriferous qtz veins, with minor scheelite, exist in three major zones that are underlain by greywacke/argillite of the Archean Yellowknife Supergroup. Gold generally occurs in fine blebs and fracture fillings within the qtz and occasionally in fractured wall rock near the veins. Much of the Au and Ag occur in native form, but are often found associated with py, cp and occasionally gal–sph and asp. | **1939–41**: staking, trenching, dd, shallow inclined shaft, small mill.<br>**1962–75**: trenching, sampling, dd, 1,300' decline.<br>**1975–76**: u/g dev, test stoping, stockpile bulk sampling.<br>**1981–85**: dd, decline extended u/g to 536' level; metallurgical testing.<br>**1986**: portable pilot plant in operation; test stoping, dd.<br>**1985–87**: prod 19,400 oz Au from 54,350 mined from 15 of 24 veins. | Prov–prob: 36,718 at 0.47 oz/t Au; dd–ind: 84,937 at 0.391 oz/t Au ***1987***<br>(Mt Grant ML, release 12/09/89) | Property 83 km ESE of Yellowknife. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 56 | DICK<br>De Steffany Tungsten<br>GML (in 1941)<br>85 I/7<br>62°29'30" 112° 57'00" | Nine scheelite–bearing qtz veins hosted by metasediments of the Archean Yellowknife Supergroup. Some Au values accompany some of the veins. | **1940–41**: staking, prospecting, trenching. | ***(i) Vein 4***: 110' x 1.5' at 0.3% $WO_3$<br>***(ii) Vein 17***: 27' x 6" at 0.5% $WO_3$<br>***1941***<br>(GSC Mem 261, p 124, 1951) | Deposit NW of N end of Gilmour Lake. De Steffany Tungsten defunct by 1956. |
| NWT. 57 | HID<br>Equinox Res L<br>85 I/7<br>62°18' 112° 48' | A 10' to 20' wide spodumene–bearing pegmatite dyke in nodular qtz–biotite schist derived from sediments of the Yellowknife Supergroup. | **1946**: trenching by Frobisher Expl CL.<br>**1975**: restaking, sampling and evaluation. | 500 T/VF at 20–25% spodumene or 50,000 at 1.70% $Li_2O$ ***1975***<br>(DIAND AF 080275, 1976 ***and*** Energy, Vol 3, p 406, 1978) | Hid 1 claim lies about 7 km W of Buckham Lake. explor planned for 1985. |
| NWT. 58 | GILMOUR LAKE<br>Arctic Circle Synd (in 1941)<br>85 I/7<br>62°28'50" 112° 49'20"<br>(Vein 109) | Scheelite–bearing qtz veins in Archean sediments of Yellowknife Group. | **1941**: staking, trenching, sampling, small tonnage mined. | ***(i) Vein 57***: 56' x 0.5' at 0.5% $WO_3$<br>***(ii) Vein 109***: 155' x 2.3' at 0.15% $WO_3$<br>***(iii) Vein 141***: 34' x 1.3' at 1.1% $WO_3$<br>***1941***<br>(GSC Mem 261, pp 75–76, 1951) | In Gilmour Lake district more than 100 qtz veins containing scheelite are known but none were large or rich enough, in 1941, to be mined profitably for tungsten. |
| NWT. 59 | JUNE (JOON)<br>D. Nickerson (c 1982)<br>85 I/7<br>62°25'07" 112° 51'08" | Two parallel systems of gold–bearing qtz stringers/ stockworks in metasediments of the Archean Yellowknife Supergroup. | **1939–41**: staking, dd.<br>**1955**: dd.<br>**1977**: ore excavated and milled by Strike Lake Res L; over 100 oz Au recovered. | c 2,000 at 2 oz/t Au<br>***1976***<br>(DIAND EGS 1976–9, p 82) | Property about 125 km E of Yellowknife. Two mineralized veins:<br>(a) 18.2 m x 1.5 m and<br>(b) 30.5 m x 47.7 cms. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 60 | McDONALD DYKE (MAC 1), ( LITA 1–4)<br>Terra ML (in 1985)<br>85 I/7<br>62°18' 112°48' | N–W trending pegmatite body containing spodumene, qtz, cleavelandite, muscovite, beryl, amblygonite, lithiophilite plus tantalite–columbite. Pegmatite is hosted by greywacke of the Archean Yellowknife Supergroup. | **1940–49**: discovery, staking, prospecting, sampling.<br>**1957**: held by Beauport Hldgs L as LITA 3 claim.<br>**1975**: staking, expl, sampling, evaluation. | *(i)* 750 T/VF at 27% spodumene or 72,600 at 2.0% $Li_2O$ ***1975***<br>*(ii)* 18 sq ft at 1.3% tantalite–columbite ***1944***<br>(GSC p 44–12, p 15 and Energy, Vol 3, p 406, 1978) | Deposit 6 km W of Buckham Lake.<br>Spodumene–bearing part of the pegmatite is 122m long and averages 6m in width. |
| NWT. 61 | NORMA (BEAULIEU)<br>Robinson Investments L (in 1987)<br>85 I/7<br>62°24'46" 112°54'22" | Gold, minor sulphides, a little scheelite in qtz vein following slate–greywacke band of the Archean Yellowknife Supergroup.<br>Easton vein was traced west of Norma vein into a qtz–porph dyke. | **1939**: staking; 15 tons treated in Gibson mill.<br>**1945–47**: dd, shaft to 320', 2 levels on "A" zone.<br>**1947–48**: milled 450 tons.<br>**1984**: dd. | ***(i) "A" zone (Norma veins)***: 14,000 at 1 oz/t Au to 230' ***1946*** (later reported to contain 1,200 ind at 0.65 oz/t Au to 225') ***1947***<br>***(ii) Scheelite zone (Norma vein)***: 22,400 at 0.2% $WO_3$, avg width 0.7' ***1941***<br>(GSC Mem 261, p 79, 1951 and EGS 17, p 138, 1959; NM 22/01/48, p 24)<br>***(iii) Easton vein***: 46m x< 1.2m at 0.01–4 oz/t Au (reported by GSC, 1989) | Property about 72 km E of Yellowknife. An indicated 105,000 tons at about 1 oz/t Au above 3,000'–level was reported by Beaulieu Yellowknife ML in 1947. (GSC Mem 261, p 79, 1951). |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 62 | RUTH<br>Hidden Lake GML<br>85 I/7<br>62°27'45" 112°34'15" | Auriferous qtz veins, with a little scheelite, in Archean greywacke and slate of the Archean Yellowknife Supergroup (asp, py, scheelite, visible gold in No 2 vein) which has been cut by minor dykes and sills of qtz–feldspar porphyry. | **1940–42**: staking, trenching, inclined shaft to 230', 2 levels, 25 ton mill, recovered a little Au and Ag from No 2 vein.<br>**1959**: airstrip, cat road, rehabilitated mine, a little Au recovered.<br>**1973**: dd on No 2 vein.<br>**1983–84**: rehab wkgs, u/g sampling and dd.<br>**1988**: sampling, tr. | ***(i) No 2 vein***: 2,447 ind at 2.22 oz/t Au, a little $WO_3$ ***1973***<br>***(ii) No 1 vein***: 50' x 1.4' at 0.50 oz/t Au (cut), a little $WO_3$<br>***(iii) No 3 vein***: 120' x 1.5' at 0.30 oz/t Au, a little $WO_3$ ***c 1942***<br>(DIAND EGS 1976–9, p 84; GSC Mem 261, p 252–3, 1951) | On No 2 vein Au–bearing intersections were from 150'–260' depth; 2,531 t containing 4,963 oz Au remain in the vein.<br>Cominco retains a 2% net profit interest. |
| NWT. 63 | THOR (ECHO)<br>Equinox Res L<br>85 I/8<br>62°25'50" 112°10'50" | A number of large spodumene–bearing dykes cut Burwash Fm nodular qtz–biotite schists of the Archean Yellowknife Supergroup, near the con-tact of a large granodiorite batholith. Dykes range from 10' to 100' in width with total length in excess of 9,000'. | **1955**: trenching, sampling, dd.<br>**1958**: dd, bulk sampling.<br>**1960**: examined for Be content.<br>**1975**: restaking, mapping, sampling, metallurgical flotation tests.<br>**1978**: dd. | 2,100,000 at 1.50% $Li_2O$ in 12 dykes ***1955***<br>***or*** 9,205,000 poss to a projected 500' ***1977***<br>(DIAND AF 017319, 1955; Energy, Vol 3, p 406, 1978) | Property 19 km N of Great Slave Lake and 112 km E of Yellowknife. The top 100' of the dykes has open–pit potential |
| NWT. 64 | STORM (BEA& APR)<br>J Irwin (in 1975)<br>85 I/10<br>62°30'15" 112°56'15" | Auriferous qtz veins with minor conformable and crosscutting scheelite in metasediments of the Yellowknife Supergroup of Archean age. | **1940–42**: staking; small mill treated 11 tons.<br>**1968–75**: staking; trenching on Au–bearing vein (Starbird ML option in 1975). | ***(i)*** 15' x 2.7' at 2.5% $WO_3$ ***1941***<br>***(ii)*** 106' x 25" at 0.83 oz/t Au ***1975***<br>(GSC Mem 261, p 272, 1951; DIAND EGS 1978–5, p 85–86) | Property about 45 mi E of Yellowknife. The gold–bearing vein is discontinuous. A sample from a 20" section of vein assayed 3.86 oz/t Au. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 65 | TURNBACK LAKE<br>Aber Res L<br>85 I/10<br>62°43'45" 112° 38'40"<br>(XL zone) | Mineralization (massive to disseminated po, sph, cp, py, gal, some Ag and $MoS_2$) forms long narrow conductive zones parallel to the bedding of Archean Yellowknife Supergroup metasediments that define a broad east plunging syncline. (At XL showing two en échelon lenses form zone 1,900' long terminated by pegmatite and granite). Although the showings are in metasediments, the proximity of felsic and intermediate volcanics, the association of mineralization with carbonate and calc-silicate units, and the great extent of mineralization along strike suggests the mineralization is exhalative and distal to a centre of vulcanism. | **1937–38**: discovery, dd, trenching.<br>**1951–55**: geol mapping, sampling, mag and EM surveys, dd.<br>**1960**: EM survey, dd.<br>**1970**: airborne and ground EM, geol mapping, trenching. | ***(i) XL zone***: 2,000 T/VF at 4 oz/t Ag, 0.8% Cu, 4.7% Zn, 1% Pb *c* ***1970*** (Highwood Res L, 1980 AR)<br>***(ii) OK zone***: 30' x 5.3' at 0.01 oz/t Au, 18.8 oz/t Ag, trace Cu, 8.4% Pb, 13.7% Zn *c* ***1974*** (DIAND EGS 1978–6, p 119, and EGS 1977–5, p 143) | Optioned in 1988 by Nanisivik ML which can earn 60% int by spending $3 million. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 66 | HIDDEN LAKE (FI & KI)<br>Equinox Res L<br>85 I/11<br>62°35' 113° 29'<br>(FI Main Dyke) | Several large northerly–striking spodumene–bearing pegmatite dykes cut Archean nodular qtz–biotite schists of the Yellowknife Supergroup. Spodumene comprises 15 to 25% of the dykes. The FI Main dyke with avg width of 25' has been traced for 6,600'. | **1955–56**: staking, trenching, sampling, and 848' dd.<br>**1975**: staking, mapping and expl by Cdn Superior Expl L.<br>**1979**: trenching and sampling.<br>**1987**: bulk sampling, metallurgical tests by Lico. | ***(i) FI Main dyke***: 7,700,000 at 1.1% $Li_2O$ if projected to 500'<br>***(ii) FI Southwest dyke***: 5,300,000 at 1.37% $Li_2O$ projected to 500'<br>***(iii) KI dyke***: 430,000 at 1.4% $Li_2O$ to 100' ***1976*** ***or*** 2,812,000 poss to a projected 500' ***1967***<br>(DIAND AF 080274 and 080282, 1976; Energy, Vol 3, p 406, 1978) | The dykes lie E and NE of the N end of Hidden Lake, from 1.5 to 3 km south of the Thompson–Lundmark mine. Tonnage and grade estimates based on mapping, sampling, crystal counts and visual observations. |
| NWT. 67 | SHORTY 1 (GREG)<br>Continental Pacific Res Inc<br>85 I/11<br>62°33'05" 113° 28'12; | Several NE–trending, unzoned spodumene–bearing pegmatite dykes cut metasediments of the Archean Yellowknife Supergroup within the high grade metamorphic aureole around the Hidden Lake Pluton of the Prosperous Lake Granitic complex. | **1975–76**: mapping, sampling.<br>**1986**: chip sampling.<br>**1987**: dd. | Inf: 4,205,000 at 1.24% $Li_2O$ to a projected 500' ***1975***<br>(Energy, Vol 3, p 406, 1978)<br>***or*** 1,357,000 at 1.07% $Li_2O$ (0.73% cutoff) to 100 m depth and over 400 m length<br>(Continental Pacific Res Inc, semi–annual rept, 31/12/88) | Property lies E of the south end of Hidden Lake. |
| NWT. 68 | THOMPSON–LUNDMARK<br>Cons Thompson Lundmark GML (50%)<br>Ardic Expl & Dev Inc (50%)<br>85 I/11<br>62°36'45" 113° 28'15" | Several gold–bearing qtz veins (avg 1.5–2') cut schists and hornfels of Yellowknife Group. | **1938–47**: staking, trenching, dd, 3 shafts and winze, six levels; 125 t/d mill. Prod 70,339 oz Au, 13,782 oz Ag from 133,969 milled in 1941–49.<br>**1983–84**: geol maping, sampling, geoph, geochem.<br>**1985–86**: resampling and relogging core.<br>**1987–88**: dd. | Pot mineral inventory: 190 000 at 0.30 oz/t Au in Kim vein ***1987***<br>(NM 28/03/88) | Dd prior to 1988 has delineated at least two potential ore shoots in the Kim vein, which has been traced over a strike length of 2,800' and depth of 440'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 69 | PRELUDE LAKE (DIKE)<br>E Haight (in 1960)<br>85 I/12<br>62°38' 113° 57' | Fifty–six out of one hundred qtz–feldspar–muscovite–tourmaline pegmatites were found to contain beryl in the Prelude Lake area. The pegmatite dykes are hosted by qtz–biotite gneiss of the Archean Yellowknife Supergroup. | **1937**: staking, prospecting.<br>**1960**: staking, examination with berylometer. | ***(i)*** 80' x 8.5' at 0.34% BeO<br>***(ii)*** 50' x 5' at 2% BeO<br>***(iii)*** 110' x 5' at 0.5% BeO<br>***(iv)*** 200' x 10' at 0.3% BeO<br>(GSC P 44–12, p 23, 1944) | Prelude Lake is 27 km NE of Yellowknife. Three significant dykes occur from 1.7 km to 4.9 km N of the lake.<br>The ground was open in 1989. |
| NWT. 70 | BLAISDELL LAKE (BILL)<br>Beauport InvestorsL (c 1972)<br>85 I/13<br>62°48'37" 113° 34'54" | Pegmatite dykes containing beryl cut a granite plug and associated metasediments of the Archean Yellowknife Supergroup. Pegmatite mineralogy consists of qtz–feldspar–beryl–tourmaline and minor columbite-tantalite, apatite and Mn–alluaudite. | **1934**: discovery.<br>**1943**: re–examined.<br>**1960–61**: staking, trenching, shallow dd. | ***(i) Van dyke***: 146,000 at 0.30% BeO<br>***(ii) B E dyke***: 60,000 at 0.50% BeO<br>***1961***<br>(NM 14/08/61) | Although a little amblygonite was found in one dyke, the pegmatites do not carry appreciable amounts of lithium minerals. |
| NWT. 71 | VO (COTA)<br>Equinox Res<br>85 I/13<br>62°50'00" 113° 34'25" | Spodumene–bearing pegmatite dykes in nodular qtz–biotite schist derived from sediments of the Archean Yellowknife Supergroup. Pegmatite mineralogy consists of qtz–cleavelandite–muscovite–spodumene with minor beryl–columbite and triphylite. | **1955**: trenching, 2 dd<br>**1975**: restaking, mapping, evaluation of dykes including chip sampling, combined with spodumene crystal counts. | 6,600 T/VF at 1.5% $Li_2O$ in 7 dykes (3,300,000 tons if projected to 500')<br>***1975***<br>(DIAND AF 080283, 1976) | Property 5 km N of Blaisdell Lake. Two dd holes c 1978 revealed lower grades across shorter intersection than found at surface. |
| NWT. 72 | CAMLAREN<br>Rayrock Yellowknife Res Inc<br>85 I/14<br>62°59.2' 113° 12.3' | Gold–bearing qtz veins in sediments of the Yellowknife Group. | **1937–38**: dd, shaft to 380', lateral advance on 2 Ls.<br>**1962–63**: 12,000 milled.<br>**1974**: shaft deepened to 838', 2 new Ls, dd.<br>**1980–81**: milled 23,000 at 0.47 oz/t Au | 11, 000 at 0.58 oz/t Au between 1,000' and 1,200' ***c 1981***<br>(Discovery West Corp, 1986 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 73 | DOME LAKE (TT)<br>Vangold Res Inc<br>85 I/14<br>62°45'25" 113° 16'50" | Gold–bearing qtz veins in metasediments within the Archean Yellowknife Group. | **1938**: staking.<br>**1944**: dd.<br>**1974–75**: dd.<br>**1986**: surf sampling, tr.<br>**1987**: dd, decline on Lambert vein and bulk sampling. | ***(i) Lambert vein***: 100' x 5.1' at 0.663 oz/t Au (40 TVF to 150' depth) ***1966***<br>***(ii) No 14 vein***: 110' x 4.3' at 0.416 oz/t Au (42 TVF to 150' depth) ***1986***<br>***(iii) No. 18 vein***: 320' x 5.4' at 0.278 oz/t Au ***1986***<br>(Terra ML, 1986 AR) | Property 65 km NE of Yellowknife; most significant shoot on surface is 160' x 3' at 2.57 oz/t Au (GCNL 01/11/85). |
| NWT. 74 | MAHE<br>Giant Bay Res L<br>85 I/14<br>62°57'17" 113° 19'22" | Gold at No 1 zone assoc with qtz in carbonaceous siltstones up to 100' thick; zone semi–concordant with stratigraphy, isoclinally folded, and dipping nearly vertically. Au is coarse, Au: Ag = 1.1, some assoc po and asp. | **1937–47**: staking, trenching, dd.<br>**1978**: restaked as MAHE.<br>**1983–85**: dd, metallurgical tests.<br>**1986–87**: decline, u/g dev, dd and bulk sampling of Kidney Pond zone. | Dd–ind: 700,163 at 0.33 oz/t Au to 500' ***plus*** 309,000 at 0.132 oz/t Au (amenable to open–pit mining, 4.4:1 strip ratio) (NM 11/04/85, p 20) | At Gordon Lake, seven Au–bearing zones tested by end of 1984. Two new high–grade, near–surface zones discovered in 1985 drilling. Project on hold. |
| NWT. 75 | MITCHELL LAKE (RIBB CLAIMS–CHICK GROUP)<br>Terra ML<br>85 I/14<br>62°46'32" 113° 26'19" | Shear zone hosted gold–bearing qtz veins in schists and argillites of the Archean Yellowknife Supergroup. | **1948**: Au discovered.<br>**1955–58**: stripping, trenching, bulk sample, dd.<br>**1974**: dd. | Poss: 3,000 at 1.50 oz/t Au to 120' ***1976***<br>(Terra Mng & Expl L 1981 AR; NM 19/02/76) | Open at depth.<br>Visible gold is present in a mineralized lens of the No. 1 zone. This lens, having a width of 3m and a length of 10m, is located within the nose of a drag fold.<br>Au mineralization is associated with py and arsenopyrite. |
| NWT. 76 | MQ (DAF)<br>Blackridge GL<br>85 I/14<br>62°54'21" 113° 13'58" | Gold–bearing qtz vein cuts greywacke and slate interbeds of Archean Yellowknife Supergroup. Vein mineralogy consists of py–gal–cp and sph. | **1946–48**: staking, trenching, dd, milling (small prod).<br>**1977**: restaking.<br>**1982–84**: trenching, dd.<br>**1987**: dd. | 5,521 at 0.888 oz/t Au ***or*** 8,028 at 0.638 oz/t Au over 3.5' width (dil, 0.45 oz/t cut–off) ***1984***<br>(GCNL 28/11/84) | At SE end of Gordon Lake. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 77 | WT (MYRT)<br>Westfort Petroleums L & Cameron Holdings<br>85 I/14<br>62°47'15" 113° 14'10" | Gold associated with sulphides (asp–po–gal–py–cp and sph) in elongated qtz masses and stockwork, spatially related to S–shaped fold near fault in greywacke and slates of Archean Yellowknife Supergroup. | **1938–39**: staking, sampling, dd.<br>**1961–63**: geol mapping, sampling, dd.<br>**1974**: 350' decline, one level (250'), sampling.<br>**1984–85**: dd, trenching, sampling.<br>**1987**: dd, geoph, decline rehabilitated. | 64,265 at 0.157 oz/t Au, some Ag to 200' ***1974*** (FP Surv Ms 1977, p 195) | Property about 72 km NE of Yellowknife; Ag avg 0.50 oz/t across No 1 zone; dd in 1984 extended zones to 500' level and still open. |
| NWT. 78 | BEAR<br>SilverHart ML<br>85 I/16<br>62°53.6' 112° 23.5' | Deposit is a volcanogenic massive sulphide hosted by rhyolite pyroclastics, tuffs and laminated cherts of the Archean Beaulieu River Greenstone Belt. Mineralogy of the polymetallic sulphide deposit is sph–gal–py with minor asp–marcasite, cp, tetrahedrite, argentite and native Ag. | **pre–1986**: explored for Au.<br>**1986**: disc, geochem.<br>**1988**: dd. | Geol. res: 809 700 at 6.11% Zn, 2.32% Pb, 6.41 oz/t Ag, 0.026 oz/t Au to 400m ***1988*** (DIAND EO NWT 1988, p 33) | 3 gold mineralized zones have been located. Gold appears to be stratiform and related to chloritized sills/volcanic flows and in massive patches of arsenopyrite associated with bedded iron sulphides. |
| NWT. 79 | LARK<br>Continental Pacific Res Inc<br>85 I/16<br>62°47.6' 112° 07.0' | Polymetallic volcanogenic massive sulphide deposit in volcanics of the Archean Yellowknife Group. | **1988**: airborne mag–EM, dd, disc.<br>**1989**: further exploration. | Dd cut 1.82% Zn, 0.12% Cu, 0.22% Pb over 60' and 1.72% Zn, 0.08% Cu, 0.136% Pb over 34' ***1988*** |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 80 | SUNRISE LAKE<br>Aber Res L (50%)<br>Hemisphere Dev Corp (50%)<br>85 I/16<br>62°54.1' 112° 22.5' | The deposit is a volcanogenic massive sulphide body occurring within mafic to felsic volcanic rocks of the Archean Beaulieu River Greenstone Belt. The NW–trending sulphide lens is 160m long x 3–3.5m thick and extends down dip for 700m. Mineralogy consists of py–sph–gal and minor cp stringers. | **1987**: VLF EM, mag.<br>**1987–89**: dd. | Prob & poss: 2,057,000 at 11.8 oz/t Ag, 0.028 oz/t Au, 8.88% Zn, 4.22% Pb, 0.02% Cu to 2,180' open to depth ***1988***<br>(Aber Res L, Interim Rept 31/10/88) | Noranda Expl Co optioned the property in 1989. |
| NWT. 81 | ROD<br>Bittern Investment L<br>85 J/8<br>62°29'50" 114° 26'00" | North–trending shear zone hosted qtz stringers/veinlets contained in volcanic inclusions/xenoliths in Archean granodiorite. Mineralized zones contain native Au, minor py, gal and cp. | **1962–64**: discovery, staking, geol mapping, dd.<br>**1975–79**: restaking, recovery test on sample; minor prod. | 2,626 at 1.15 oz/t Au over widths of 2.5' and 3.8' in two veins ***1975***<br>(DIAND EGS 1978–11, p 100) | S of SW end of Baker L, 6 km NW of Yellowknife; NE vein exposed for a length of 55 m.; during 1978–79 produced 0.47 to 0.62 kg Au from 10.9 tonnes of material. |
| NWT. 82 | CRESTAURUM<br>Northbelt Yellowknife ML<br>85 J/9<br>62°35'00" 114° 21'10" | Gold and sulphides in a sparsely mineralized mixture of qtz, carb, chlorite and sericite schist in shear zones cutting andesitic lavas of Archean Yellowknife greenstone belt. | **1944–47**: staking, trenching, shaft to 420', 2 levels, mapping surface dd.<br>**1964–65**: dd.<br>**1966–78**: Giant Yellowknife ML explored greenstone belt; dd.<br>**1985**: dd near Crestaurum mine. | Dd–ind: 100,000 at 0.55 oz/t Au to 400' ***1974***<br>(CMJ April 1974, p 44) | Controlled by Giant Yellowknife ML or Pamorex; no significant values during 1976 dd program on Crestaurum zone. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 83 | HOMER (PC)<br>Giant Yellowknife ML (in 1972)<br>85 J/9<br>62°39'15" 114° 17'50" | Sph, gal, asp, py, minor cp and tetrahedrite form massive sulphide lenses in a zone of numerous narrow shears of limited length, parallel to a qtz porphyry dyke in meta–basalt and meta–andesite of the Yellowknife greenstone belt. | **1933–34**: staking, trenching and sampling.<br>**1944–45**: prospecting, dd.<br>**1960–66**: restaking, dd, trenching.<br>**1971–72**: restaking, mapping, bedrock geochem. | ***(i)*** 500' x 8' at 0.09 oz/t Au, 2.81 oz/t Ag, 0.14% Cu, 3.61% Pb, 1.79% Zn (c 600 T/VF)<br>***(ii)*** 300' x 8' at 0.01 oz/t Au, 1.45 oz/t Ag, 0.10% Cu, 2.76% Pb, 3.49% Zn ***1966***<br>(NM 11/08/66 and GSC Paper 70–70, p 40–41) | Property at Homer Lake 14 mi N of Yellowknife. Seven sulphide occurrences. Drilling on No 1 zone to 30'; potential strike length of 1,500'. |
| NWT. 84 | NITE (LI)<br>Equinox Res L<br>85 J/9<br>62°31'45" 114° 08'00" | Spodumene–bearing pegmatite dykes in nodular qtz–biotite schist derived from sediments of the Archean Yellowknife Supergroup. Spodumene–amblygonite and lepidolite are the major lithium minerals present. | **1956**: trenching LI claims.<br>**1975**: restaking; evaluation of the dykes based on chip sampling and spodumene crystal count. | ***Main (No 1) dyke***: 440,000 at 1.51% $Li_2O$ to 100' ***or*** 2,580,500 to a projected 500' ***1975***<br>(DIAND AF 080290, 1976: Energy, Vol 3, p 406, 1978) | Property near S end of Prosperous Lake, 14 km NE of Yellowknife.<br>Main (No. 1) dyke is steeply dipping and outcrops over 914m x 7.6m. |
| NWT. 85 | SUPERCREST (AKAITCHO)<br>Supercrest ML<br>85 J/9<br>62°31.5' 114° 20.8' | Gold–bearing shear zones in volcanics extend north from the Giant mine property. A mile to the north is the GKP zone, mined in 1986–88. | **1944–47**: dd.<br>**1948**: shaft started, dd.<br>**1965–67**: headings driven in from Giant workings.<br>**1966–81**; milled 400,000 to prod. 260,000 oz Au.<br>**1986–88**: small prod from GKP zone. | Prob: 28,000 at 0.359 oz/t Au in original mine; mineral inventory: 140,000 in original mine and GKP zone ***1988***<br>(Giant Yellowknife ML 1988 AR) |  |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 86 | TIN (STAR, PROSPEROUS LAKE)<br>Cons Five Star Res L<br>85 J/9<br>62°32'35" 114° 10'55" | Three main sulphide-bearing qtz lenses, with some visible gold, in shear zones in nodular qtz–mica schists of the Archean Yellowknife Supergroup. Sphalerite veinlets and disseminated sph–py are ubiquitous in the mineralized zones. | **1928–29**: staking.<br>**1940–45**: restaking, trenching, pitting, dd.<br>**1955**: dd.<br>**1965–67**: geol mapping, trenching, sampling.<br>**1980–81**: rotary drilling.<br>**1985–87**: decline driven, 1,226 at 0.371 oz/t Au shipped to Con mill. | Prov: 1,544 at 0.45 oz/t Au ***1981***<br>(NM 19/11/81, p 5) | Property at S end of Prosperous L, 14 km NE of Yellowknife; amenable to recovery from o/p and shallow u/g potential.<br>Wescan Energy L optioned a 50% int in this property in 1988. |
| NWT. 87 | CLAN LAKE (NOSE CLAIMS)<br>Canamax Res L<br>(option 1988)<br>85 J/16<br>62°54'50" 114° 14'00" | Three principal auriferous zones containing irregular masses and lenses of qtz with visible Au and sulphides (po, asp, py, cp, gal, sph) centered about a major structure of steeply dipping strata accompanied by intense drag folding within dacite of the Archean Yellowknife Supergroup. | **1964–74**: discovery, staking, geol, mapping, trenching, mag and IP surveys, dd; bulk sample treated at Discovery Mine's mill in 1967.<br>**1980**: explor and dd.<br>**1983–84**: Pacific Trans-Ocean Res L, option.<br>**1988**: dd. | ***No 1 zone***: 70' x 19' at 0.42 oz/t Au to 25', open to depth ***or*** 1.08 oz/t Au across 11' ***1967***<br>(NM 17/01/74; GSC P 70–70, p 42) | The No 1 zone in vicinity of bulk sample pit (70' long) has strike length of 200', a width from 8' to 20' and grades approx 0.42 oz/t Au, 0.1 oz/t Ag. One hole confirmed depth extension to 400'. The zone has been traced for a strike length of 1,500'. |
| NWT. 88 | SUN<br>85 N/1<br>63°07'40" 116° 19'30" | Qtz stockwork, between branches of a fault cutting PC qtz feldspar porphyry, contains hematite, a little pitchblende and copper mnrls.<br>Mnrl'n limited to small pockets of uncertain horizontal and vertical extent. | **1954–57**: discovery, shaft to 275', 2 levels, surface and u/g dd.<br>**1969**: prospecting, mapping, trenching, scintillometer survey.<br>**1977**: dd of anomalies N of u/g workings. | ***(i)*** 100' x 6.45' at 0.207% $U_3O_8$<br>***(ii)*** 127' x 7.28' at 0.212% $U_3O_8$ ***1957***<br>***(iii)*** 235' x 64' at 3.01 lb/t $U_3O_8$ ***1970***<br>(Crestland ML, 1971 AR; DIAND EGS 1978–6, p 33) | Property in Marian River area, 123 km NW of Yellowknife. Deposit too small to develop on its own.<br>A dd program in 1977, tested anomalies N of u/g workings with disappointing results. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 89 | CAMP LAKE (DELORO)<br>Anglo United Dev Corp L (in 1984)<br>85 N/8<br>63°21'05" 116° 18'15" | Auriferous lenticular zones, containing sulphide–bearing (py–po–asp–sph–gal and cp) qtz stringers in shear zones conformable with greywacke of the Archean Yellowknife Supergroup. | **1938**: staking.<br>**1944–46**: restaking, dd.<br>**1954**: relogging dd core, sampling.<br>**1965**: dd.<br>**1974**: surface expl, dd.<br>**1975**: part of area flooded by Strutt Lake Power Project.<br>**1981**: feasibility study. | Dd–ind + pot: ***(i)*** 51,150 at 0.40 oz/t Au; ***(ii)*** 13,050 at 0.35 oz/t Au ***1980***<br>(Anglo United Dev Corp L, 1980 AR) | Property on E side of Snare River, 131 km NW of Yellowknife; dd–ind zones defined to a depth of 450'; several zones not included in tonnage and grade because dd incomplete. |
| NWT. 90 | SLEMON (AU & RO)<br>Inter–Globe Res L<br>85 N/8<br>63°16'20" 116° 06'30" | Archean Yellowknife Supergroup metasediments and intrusive qtz porphyry sills contain gold–bearing qtz veins, stockworks, and breccia zones. The latter contain gold–bearing bands of massive pyrite plus some silver and bismuth tellurides. | **1939–40**: discovery, staking, trenching, dd.<br>**1945–47**: staking, test pitting, dd.<br>**1983–84**: dd, soil sampling, prospecting, mapping, pitting, bulk sampling.<br>**1987**: dd. | Poss: 35,000 at 0.2 oz/t Au using dd core samples ***or*** 60,000 at 0.40 oz/t Au using drill sludge samples ***1982***<br>(NM 28/10/82, p 3) | 125 km NW of Yellowknife and 4 km NE of Slemon Lake; tonnage and grade figures based on early work.<br>Under a 65% int option by Noranda. |
| NWT. 91 | CAB (GAR)<br>B Weir<br>85 N/10<br>63°33'00" 116° 44'45" | Cobaltian asp with minor bismuthinite, native Ag and Au, cp, py, po, mag, ilmenite, in massive veins and disseminations in qtz– biotite schist and magnetite–rich argillaceous beds of the Snare Group of Aphebian age, and a few veins cutting rhyolites of the Geat Bear magmatic zone that unconformably overlies the Snare Group metasediments. | **1965–70**: bulk sample analysis, trenching, geoph, dd, mapping.<br>**1978–80**: staking, sampling, mapping by Noranda. | Ind: 214,540 at 0.162% Bi, a little Cu, Co, Au and Ag ***1969***<br>(New Athona ML, 1969 AR) | Property in Marian River area about 176 km NW of Yellowknife; examination of a bulk sample by the Mines Branch, Ottawa in 1965 indicated metallurgical problems due to complex mineralogy. |
| NWT. 92 | SUE–DIANNE<br>Noranda Expl CL<br>85 N/15<br>63°45.6' 116° 54.8' | Cp, bornite, chalcocite in a magnetite–cemented breccia zone hosted by a rhyodacite ignimbritic sequence. | **1974**: spectrometric anomaly staked.<br>**1975–77**: rad and mag surveys, dd | 9 million at 0.8% Cu, 0.01% $U_3O_8$ ***1977***<br>(SS Gandhi, GSC, oral commun 28/08/89) | |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 93 | BBB & OLA (VIKING YELLOWKNIFE)<br>Viking Yellowknife GML<br>85 O/1<br>63°06'19" 114° 03'14" | Native gold in qtz bodies within a qtz diorite sill near the contact with sediments of the Archean Yellowknife Supergroup. A small amount of asp, py, po, gal and cp are present. | **1945–47**: discovery, staking, trenching, dd, shaft to 159', lateral and u/g dd.<br>**1968–77**: Discovery Mines option.<br>**1988**: dd. | 700 T/VF at 0.6 oz/t Au ***1968***<br>(GSC Paper 70–70, p 44) | Property 72 km NNE of Yellowknife and 13 km SW of the Discovery mine. New Athona ML held 79% shs of Viking Y.<br>Canamax Res L optioned 60% int in the property in 1988. |
| NWT. 94 | J.E.S. (JOHNSTON LAKE)<br>JE Stevens<br>85 O/1<br>63°01'40" 114° 10'10" | Gold and associated gal, asp, py, po, sph, cp in qtz veins in coarse greywacke to argillite (Burwash Fm turbidites) of the Archean Yellowknife Supergroup. | **1937–39**: discovery, 18 tons shipped to Con mill.<br>**1941–43**: staking, Cominco option.<br>**1944–46**: prospecting, trenching, sampling, dd (option dropped 1948).<br>**1965–66**: Giant Yellowknife option; geol mapping, dd.<br>**1980–81**: Ashnola Mng option, expl, adit and short decline, bulk sampling. | 10,150 at 0.48 oz/t Au ***1945***<br>(R G McEachern 04/11/80 for Ashnola Mng CL ***in*** VSE SMF 03/02/81) | Property at N end of Johnston Lake; explored to depth of 205'; dd on four veins: Swamp vein, Ridge zone, Cross vein, Hill vein. |
| NWT. 95 | MOSHER LAKE (MOS)<br>Roxwell GML<br>85 O/4<br>63°02'00" 115° 30'30" | Gold associated with po, py, asp and qtz stringers in schistose amphibolite mafic metavolcanics of the Archean Yellowknife Supergroup. | **1944–47**: staking, dd.<br>**1960–74**: staking, trenching, dd.<br>**1987**: dd by Canamax under option. | Dd–ind: 552,637 at 0.082 oz/t Au ***c 1974***<br>(Roxwell Prospectus VSE 07/03/83) | Over a width of 57' the zone assayed 0.07 oz/t Au; could be mined by o/p; located 32 km from Mackenzie Highway. |
| NWT. 96 | RUSSELL LAKE (BUGOW GP)<br>Aber Res L<br>85 O/4<br>63°14' 115° 40' | Gold associated with units of sulphide Fe Fm occurring within turbidite. Pyrite (py) is principal iron sulphide but po is present and is perhaps the primary sulphide. Asp absent. Many similarities to Lupin. | **1939**: staking.<br>**1946–71**: trenching, dd.<br>**1985**: Cominco option; geol and mag surveys, dd.<br>**1966–68**: dd.<br>**1987**: geochem, geoph. | ***(i) Andrew zones***:<br>(a) 48,400 at 0.13 oz/t Au<br>(b) 20,000 at 0.23 oz/t Au<br>***1947***<br>(DIAND EO NWT 1986, p 21)<br>***(ii) Cabin zone***: 100,000 at 0.3 oz/t Au ***1987***<br>(Aber Res L, 1987 AR) | Property 104 km NW of Yellowknife. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. **97** | STORM<br>Corolla Res L (in 1985)<br>85 P/3<br>63°00'30" 113° 08'30" | Scheelite–bearing qtz veins are hosted in argillites and greywackes of the Archean Yellowknife Supergroup that have been cut by several diabase dykes. Vein mineralogy consists of qtz–carb–scheelite with minor py–po–cp–gal. | **1941–42**: staking, stripping, sampling, 2 shallow prospect shafts.<br>**1979–81**: restaking, dd.<br>**1985**: soil and rock geochem, geol mapping, sampling, VLF–EM. | 61' x 7' at 0.38% $WO_3$ ***and*** 69' x 5.9' at 0.51% $WO_3$ ***1942***<br>(GSC Mem 261, p 273, 1951) | Property 4 km NE of Camlaren Mine and 55 mi NE of Yellowknife. |
| NWT. **98** | BRUCE–AVIS (WINTER LAKE)<br>Discovery ML<br>Newmont Expl Can L (in 1986)<br>85 P/4<br>63°10'10" 113° 55'20" | Short, narrow Au–bearing qtz veins cutting fragmented Archean amphibole gneiss of the Yellowknife Supergroup. | **1944–56**: staking, trenching, geol mapping, sampling, dd.<br>**1981**: Newmont Expl Can L option; geol mapping, sampling, mag, EM, IP, dd. | 100,000 at 0.62 oz/t Au in main zone ***1956***<br>(NM 19/04/56) | Property at Winter Lake, 83 km NNE of Yellowknife; dd intersected Au–bearing veins at 400' and 800' levels; reported an avg grade of 0.3 oz/t Au in main zone (McGlynn GSC P 70–17, p 51). |
| NWT. **99** | GAB<br>Treminco Res L<br>85 P/4<br>63°06'10" 113° 32'30" | Visible gold associated with sulphides in qtz vein within shear zone cutting knotted qtz mica schist, derived from impure greywacke and slate of the Archean Yellowknife Supergroup. | **1947**: discovery, shallow dd.<br>**1986**: sampling.<br>**1987**: dd. | meas & dd–ind: 30,000 at 0.31 oz/t Au ***1987***<br>(Treminco Res L, 1988 AR) | Property 19 km SE of Discovery mine. |
| NWT. **100** | NICHOLAS LAKE<br>Athabaska G Res L (60%)<br>Chevron Mnrls L (40%)<br>85 P/4<br>63°14.9' 113° 45.7' | Gold occurs in a zone of galena and pyrite and arsenopyrite–bearing qtz veins, in a plug of leucodiorite and also projecting into surrounding Archean Yellowknife Supergroup metasediments. | **1941**: discovery, tr.<br>**1947**: dd.<br>**1987–89**: tr, dd, IP. | prob & poss: 992 000 at 0.334 oz/t Au ***1989***<br>(GCNL 3/05/89) | Bench tests on composite samples indicated recovery of 95% Au by a conventional cyanide plant. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 101 | SYN & VEN<br>Canamax Res Inc<br>85 P/6<br>63°16' 113°05' | Visible gold in discontinuous qtz veins in greywacke of the Archean Yellowknife Supergroup. | **1940s**: expl, pitting, trenching.<br>**1973–74**: staking, dd.<br>**1982–83**: surface investigation, sampling, dd. | Dd–ind: 4,400 at 0.47 oz/t Au ***1983***<br>(Pacific Copper ML, AR 30/06/84) | NE of Gordon Lake, 77 km NNE of Yellowknife. |
| NWT. 102 | NORRIS LAKE (KT)<br>G Ryznar (c 1985)<br>86 B/5<br>64°26'30" 115°45'30" | Gal, sph, asp, cp and Au in 100' wide belt of argillite–qtz veining in siltstone–shale unit within Proterozoic Snare Group. | **1938–39**: staking, trenching.<br>**1945–47**: restaking, dd.<br>**1965–69**: restaking, mapping, sampling, exploring Pb–Zn–Ag possibilities.<br>**1971**: dd, EM survey.<br>**1983**: petrographic study. | 81,000 at 0.228 oz/t Au, uncut ***1947***<br>(GSC Mem 261, p 139, 1951) | Property 224 km NNE of Yellowknife; a 5' to 8' wide mineralized zone plunges 45° below lake to depth of 300' below lake bottom. |
| NWT. 103 | ARSENO (INDIGO)<br>New Lintex Mnrls L<br>86 B/6<br>64°16'25" 115°12'40"<br>(No 1 deposit) | Zones of auriferous qtz veins and stringers, offset by NNW trending faults, in schistose greywackes and argillites of the Archean Yellowknife Supergroup. Metallic minerals generally comprise < 1% of the vein material and include py–asp–po–gal–cp–sph + jamesonite and free Au. | **1945–49**: staking, trenching, dd, shaft to 525', 3 levels.<br>**1979–82**: shaft rehabilitation, dewatering.<br>**1988**: dd. | ***(i) No 1 Deposit (Indigo)***: 72,500 at 0.36 oz/t Au ***1980***<br>(Manson Creek Res L, release 11/05/88)<br>***(ii) No 3 Deposit***: 230' x 4.6' at 0.475 oz/t Au (avg in 6 ddh) ***1946***<br>(NM 15/08/46) | Property at N end of Indin Lake; No 3 deposit, which is 345' long (230' is under the lake) may be offset extension of No 1 deposit and may represent the northern extension of the North Inca Main Deposit (NWT. 107).<br>Indigo GM Inc optioned a 60% int in the property in 1987 and in 1988 reassigned half that option to Manson Creek Res Inc. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 104 | COLOMAC (HYDRA)<br>Neptune Res Corp<br>86 B/6<br>64°23'55" 115° 05'08"<br>(Colomac dyke) | Gold–bearing syn–volcanic qtz albite sills or dykes at contact of gabbro body (Colomac dyke) or cutting qtz diorite body (Goldcrest dyke) in volcanic rocks of the Archean Yellowknife Supergroup. | **1945–46**: discovery, mapping, trenching, sampling, dd; adit and u/g workings on Colomac.<br>**1974**: optioned to Cominco L, dd near old u/g workings.<br>**1977**: Cominco L dropped option.<br>**1980–81**: feasibility study.<br>**1987**: dd and vat leach tests at 70–80% rec.<br>**1988**: 10,000 tpd conventional mill constructed, 94% rec.<br>**1989**: bulk sampling, test milling, o/p prep. | ***(i) Colomac dyke***: 28 million proven & prob at 0.056 oz/t Au mineable by o/p in 5 zones ***1988*** (Northgate Expl L, 1988 AR)<br>***(ii) Goldcrest dyke***: 1,280,000 at 0.144 oz/t Au to 400' ***1946*** (Coldcrest ML, 1946 AR) | Plan start–up early 1990 to prod 200,000 oz/yr.<br>Since 1981 Northgate Expl has supplied bridge financing, acquired 54% o/s shs of Neptune Res and can earn 50% direct int in the property. |
| NWT. 105 | KIM<br>Echo Bay ML (75%)<br>Comaplex Res Intl L (18.75%)<br>Petromet Res L (6.25%)<br>86 B/6<br>64°19'55" 115° 16'20" (Main) | **Main zone**: stratabound zone of Au–bearing qtz–carb veins in fractured pillow lavas near contact with seds. Traced 2,400' on strike.<br>**Cass zone**: auriferous qtz stockwork with po, py, asp, native Au within a gabbro sill. Mnrl'd sill traced 1,475'. | **1983**: mag, VLF–EM, max min surveys.<br>**1984–87**: disc and expl of Main zone by dd.<br>**1985–89**: disc and expl by dd of Cass zone.<br>**1987**: bulk sampling.<br>**1988**: test work. | ***(i) Main (Lex Lake)***: 3 million at 0.24 oz/t Au (prelim est) ***1986*** (NM 13/10/86)<br>***(ii) Cass***: 2.7 million at 0.218 oz/t Au (prelim est) ***1986*** (DIAND Mines and Mineral Activities, 1986) | Main zone is 3 km NE of Cass zone. |
| NWT. 106 | LEXINDIN (LETA ZONE 1)<br>Durga Res L<br>86 B/6<br>64°17'12" 115° 12'36" | Series of conformable auriferous qtz veins, stringers and lenses hosted by N–NNE striking greywackes, slates and volcanics of the Archean Yellowknife Supergroup. No. 1 vein mineralogy consists of qtz–py–asp, po, cp and visible Au. | **1944**: staking.<br>**1946–47**: prospecting, trenching, dd.<br>**1981**: restaking, sampling.<br>**1984–85**: geol, EM, mag and geochem surveys; trenching and sampling of property. | 29,000 at 0.35 oz/t Au ***c 1978*** (DIAND, EGS–1983–2, p 126) | Deposit is still open below 400' but width and grade weakens.<br>The No. 1 zone is unexposed, lying beneath Leta Arm. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 107 | NORTH INCA<br>New Lintex Mnrls L<br>86 B/6, 3<br>64°15'48" 115° 13'00" | The Main zone comprises a Au–bearing stockwork of qtz veinlets in a conformable graphitic shear in sediments of the Archean Yellowknife Supergroup. Outside the Main shear, Au occurrences are associated with generally conformable qtz veins in volcanics. | **1939–41**: discovery, dd.<br>**1946–49**: dd, shaft to 525'; lateral work explored "A" zone on 175' level and Main zone on 300' level.<br>**1988**: dd. | ***(i) "A" zone***: 23,000 ind at 0.54 oz/t Au, uncut grade across 2.5'<br>***(ii) Main zone***: 600' x 5' at 0.44 oz/t Au (0.28 cut), depths of 160' to 300' ***1948***<br>(GSC Mem 261, p 223, 1951; North Inca GML, 1947 and 1948 ARs) | A 1980 reevaluation of unspecified North Inca deposit(s) produced an estimate of 90,000 at 0.20 oz/t Au ***1980*** (Manson Creek Res L, release 1/05/88).<br>North Inca's Main deposit may be the southern extension of the Arseno No. 3 deposit (NWT. 103). |
| NWT. 108 | SPIDER LAKE (FLY CLAIMS)<br>Treasure Island Res Corp<br>86 B/6<br>64°29'30" 115° 07'54"<br>(North Zone) | Au in metasediments of Yellowknife Supergroup at/or near contact with metavolcanics. Auriferous zones generally silicified, probably due to intrusion of the 6–12m wide Gamble Dyke, an albite–porphyritic dyke trending ENE. | **1945–47**: staking, trenching, sampling, dd in 3 zones.<br>**1983–86**: dd, trenching, sampling, geol mapping, soil sampling, mag, EM.<br>**1987**: dd. | Prob: 116,185 at 0.411 oz/t Au (dil) plus 33,972 at 0.128 oz/t Au ***1983***<br>(NM 12/05/83, p 13) | Property 22 km N of Indin Lake; tonnage in three zones; avg width about 4.5' and depth to 370'.<br>Intl Mahogany Corp can earn 50% int in property. |
| NWT. 109 | JINGO (DINGO)<br>North Continental Energy L<br>86 B/12<br>64°34'52" 115° 31'52"<br>(No 1 vein) | Cp, po, py, gal, sph, a bismuth mnrl, native Cu and Au in qtz veins in steeply–dipping shear zones hosted by felsic volcanics of the Archean Yellowknife Supergroup or along the margins of crosscutting rhyolite porphyry dykes. | **1939–46**: staking, trenching, bulk sampling, dd.<br>**1963**: restaking.<br>**1970–71**: trenching, geol mapping, geoph.<br>**1974**: packsack drilling.<br>**1979–80**: prospecting, geol, sampling, rad survey. | ***(i) No 1 vein***: 175' x 5.8' at 0.4 oz/t Au<br>***(ii) No 2 vein***: 932' x 2.58' at 0.28 oz/t Au<br>***(iii) No 4 vein***: 300' x 1.25' at 0.35 oz/t Au<br>***(iv) No 18 vein***: 240' x 1.3' at 0.32 oz/t Au ***1946***<br>(GSC Mem 261, pp 203–4, 1951) | Property about 45 km NW of Indin Lake; dimensions and grades of veins from trenching and sampling; work by 1980 indicated an avg 0.35 oz/t Au over 3' of vein, exposed for a length of 3,680'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 110 | TERRA (SILVER BEAR & NORTH)<br>Octan Res Inc<br>86 E/9<br>65°36'15" 118°06'55" | Complex qtz–carb vein system containing sulphs and sulpharsenides – Ag–Cu–Bi–Co–Au–U mnrl'n and native silver. The veins are assoc with a fault, and are hosted by volcanic and sedimentary rocks of the Aphebian Labine Gp at the margin of a qtz–monzonite intrusion of Aphebian age. | **1940s**: ground first staked.<br>**1960–63**: dd.<br>**1966–76**: restaking, dd, 1,200' inclined adit, u/g dev; milling started at 150 tpd in 1968; trenching, mag, EM and rad surveys.<br>**1977–83**: 1,800' long drift from Silver Bear into North mine; milling ore from North mine started in 1979; mill increased to 400 tpd; a 10,000' decline serves 13 levels, the deepest at 1,300'.<br>**1984–85**: overburden stripping and some o/p mng, prod suspended April/85. | 30,610 at 30 oz/t Ag (in place) ***plus*** 500,000 tailings with up to 0.5% Ni, 0.5% Cu<br>(NM 01/02/88) | The mine is located on a peninsula in the Camsell River about 8 km SE of Great Bear Lake. From 1970–85 the mine produced 14,457,200 oz Ag from 520,500 t ore. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 111 | NOREX<br>Octan Res Inc<br>86 F/12<br>65°35'15" 117°57'25" | Ag–bearing qtz–carb veins, in tension fractures assoc with faults, are hosted by andesitic flows and ash flow tuffs of Camsell River Fm of Aphebian Labine Gp.<br>***Graham vein*** occupies a wide zone of alteration and contains native Ag and Bi, sulphides (cp, gal, sph ...) plus Ag and Co arsenides.<br>***Smallwood Lake zone*** contains Ag–bearing veins in a sulphide rich altered tuff and andesite (sph, gal ...).<br>***No 4 vein*** occurs in a 51' wide fracture zone. | **1932–33**: discovery, stripping, pitting.<br>**1967–69**: staking, trenching, dd sampling, adit and raise.<br>**1970–73**: small–scale o/p and test mill. Adit started; stockpiled ore fed through Terra mill.<br>**1977–79**: u/g dev, ore treated at Terra's mill; decline and u/g dev started at Smallwood Lake zone, plus limited mng.<br>**1980–83**: 3,000' decline completed at Norex to 400' serves 3 levels; u/g dev + dd; 3,000' decline to 300' at Smallwood Lake and shipped ore to Terra's mill.<br>**1984**: mine placed on hold and allowed to flood. | ***Graham vein***: 850 at 250 oz/t Ag<br>(NM 17/04/89)<br>***Smallwood Lake zone***:<br>N/A Ag–Bi–Cu–Zn–Pb | The mine is on the S shore of Silver Bay, part of the Camsell River.<br>From 1972–83 the mine produced 2,318,000 oz Ag from 69,190 t ore. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 112 | SILVER BAY<br>Procan Expl C<br>(1982 option)<br>86 F/12)<br>65°35'45" 117° 58'35" | Volcanics of Aphebian Camsell River Formation (Labine Group) intruded by syenitic complex in mine area. At No 1 vein, qtz–dolomite stringers occur in zone 3' to 4' wide in andesitic rocks. Mineralization in dilational zones of veins include py, asp, cp, sph, gal, gersdorffite, niccolite, rammelsbergite, Ag, argentite, Bi, pitchblende, hematite. | **1932–34**: discovery, adit, winze, drifting; metallurgical tests of sample.<br>**1946–48**: dd.<br>**1962–68**: restaking, new adit, some high–grade shipments.<br>**1970–72**: u/g workings rehabilitated; stockpiling of high–grade ore; dd, u/g work; 100 tpd mill treated 4,000 tons in 1972, until milling suspended.<br>**1975–77**: mine and mill revamped, complete plant u/g except living quarters; prod started fall 1976, mill at 65 tpd in 1977.<br>**1978**: decline to 340' level; fire and breakdown of dump equipment resulted in shutdown. | Ind: 22,785 at 109 oz/t Ag ***1972***<br>(CMH 1971–72, p 342) | Property on Camsell River, near Great Bear Lake. An estimate of 25,958 tons of unspecified grade was made in 1976; in addition, new high–grade zones subsequently discovered. Avg grade of ore reported as 60 oz/t Ag. Produced Dec 76 – June 77 (3,752 t). |
| NWT. 113 | CONTACT LAKE<br>Echo Bay ML and Ulster<br>Petrs L (in 1980)<br>86 F/13<br>65°59'40" 117° 48'00" | Qtz–carb veins in sheared zones in Aphebian granodiorite intruding Echo Bay Gp volcanics; vein mnrls include native Ag, sulphs, sulpharsenides, bismuth and pitchblende. | **1931–39**: staking, expl and dev; 25 tpd mill operated 1936–39.<br>**1944–50**: dd, geol, prosp, rad, adit shaft, drifts, x–cuts.<br>**1968–69**: purchased by Ulster Petr L; mng plant erected; u/g exploration and dev.<br>**1975–79**: Echo Bay ML milled ore. | 8,050 at 43 oz/t Ag ***1981***<br>(Echo Bay ML, LS 2822, TSE 02/03/81) | Property on N side of Contact L, 14 km SE of Port Radium; complex mineralogy – Ag, Co, Bi, U; two zones of mineralization. |

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| NWT. 114 | REN<br>Cominco L<br>86 H/7<br>65°23' 112° 59' | Lupin–type auriferous iron formation. The Main zone has been traced 4,000' across an average of 11.5'. | **1974**: disc, sampling.<br>**1976**: dd.<br>**1980**: mag, EM, dd.<br>**1983–89**: dd. | Dd–ind; 1,200,000 at 0.19 oz/t Au ***1989***<br>(GCNL 25/08/89) | Under option in 1989 by Westview Res Inc.<br>The resource estimate was made for a 500–foot strike length of Main zone, to depth of 660 feet. |
| NWT. 115 | IZOK LAKE<br>Falconbridge L<br>86 H/10<br>65°37'50" 112°47'50" | Metamorphosed volcanogenic massive sulphide deposit (sph, cp, py, po, minor gal, tetrahedrite, Ag, sulfosalt) in gneiss, derived largely from felsic flows of the Archean Yellowknife Supergroup. | **1975–76**: discovery, staking, dd; geol mapping, geoph, dd continued on land portion of property.<br>**1979**: dd.<br>**1985**: feasibility study by Echo Bay ML. | Dd–ind: 10,800,000 at 2.85% Cu, 1.46% Pb, 14.4% Zn, and 2.19 oz/t Ag ***1985***<br>(NM 27/03/85, p A1) | Property 72 km W of Contwyto Lake; three sulphide zones, one 300' thick, partly under Izok Lake; o/p potential. |
| NWT. 116 | TAKIJUQ LAKE (HOOD RIVER)<br>Falconbridge L<br>86 I/2<br>66°03'35" 112°45'15" | Massive sulphides in dacite near a granite contact. | **1973–75**: prospecting permit, airborne EM and mag, geol and geochem surveys, ground EM and mag surveys, dd.<br>**1982**: dd and EM. | ***(i) No 10 zone***: 500,000 at 5% Cu, 3.5% Zn, 1 oz/t Ag ***plus*** 150,000 at 4% Zn, 1 + % Cu<br>***(ii) No 41 zone***: 300,000 at 1.57% Cu, 4.12% Zn, 0.52 oz/t Ag ***1975***<br>(Texasgulf Inc, 1975 AR; DIAND EGS 1978–5, p 70) | The deposits are 48 km N of the Izok Lake. No 10 zone was tested to 250' (open at depth and on one side); No 41 zone to 200'. The latter and its extension to the SE (No 41A) may extend resources to 2 million tons. |
| NWT. 117 | MARINER<br>Silver Shield M Inc (in 1972)<br>86 K/4<br>66°12'00" 117°36'30" | Bornite and cp in sheared qtz vein or stock work occupying fault zones in Proterozoic rhyolite porphyry. | **1930**: prospecting, staking.<br>**1968**: dd by Mariner ML. | 700' x 6' to 8' at 6 to 8% Cu ***1968***<br>(NM 29/08/68, p 1) | Property , open in 1989, is 24 km NE of Port Radium. Eight holes drilled along 450' returned values ranging from 2.95% Cu/7' to 9.60% Cu/5.4'. |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 118 | G W GROUP<br>Westfield Mnrls L<br>(c 1969)<br>86 K/5<br>66°26'37" 117°31'25" | Bornite, cp, py, hematite and carb in vugs, fractures and vein breccia in two giant qtz veins (stockworks) following fault cutting dacite of the Aphebian Cameron Bay Group; $U_3O_8$ values in a parallel vein. | **1921**: Cu–stained boulder train discovered.<br>**1950–57**: test pitting, sampling, dd. In 1957, 3,473' dd widely spaced.<br>**1968–69**: geol mapping, prospecting, trenching, rad, EM and mag surveys. | Ind: 100,000 at 8.4% Cu to 275' ***1957***<br>(Panamerican Ventures L, 1957 AR) | Possible o/p, near mill of Echo Bay ML; company geologists suggest possibility of substantial tonnage of 8% Cu to 1,000' depth. |
| NWT. 119 | EL–BONANZA<br>Octan Res L<br>86 L/1<br>66°00'10" 118°04'30" | Qtz, calcite, native Ag, cp, bornite, covellite, sph, tetrahedrite, pitchblende in fractures in Aphebian Labine Gp. sediments associated with a predominantly volcanic sequence; at margin of a qtz–monzonite intrusion. Ag associated with chlorite alteration of sedimentary rocks. | **1931–36**: staking, dd, 2 shafts, levels at 80 and 160'; 6,506 lbs high–grade ore shipped.<br>**1956 and 1965**: u/g work and some mng.<br>**1978–81**: leased to Echo Bay ML; surface and u/g dd; dewatered u/g workings.<br>**1984**: mapping, sampling, geoph. | 2,500 at 60 oz/t Ag in stockpile ***1972***<br>(NM 20/07/72) | Property 5.5 mi SSW of Port Radium; contains a high–grade pod u/g (shallow dd in 1930s cut 11' of 68 oz/t Ag and 44" of 8,806 oz/t Ag). |
| NWT. 120 | URANIUM GROUP<br>Dominion Explorers L<br>(50%)<br>Ventures Claims L<br>(50%)<br>86 L/1<br>66°05'35" 118°01'20" | A high–grade Cu–bearing pod with possibility of some high–grade native Ag along periphery and three good grade uranium–bearing shoots in the extension of the old workings of the Eldorado mine. | **1931**: claims held by Ventures L and Dominion Explorers L.<br>**pre–1944**: prospecting by surface pitting.<br>**1950–55**: dd.<br>**1959**: some U mined by Eldorado.<br>**1974–76**: Echo Bay ML option, surface dd, geochem expl, unwatered Eldorado mine workings. | ***(i) Cu deposit***: 30,000 at 10% Cu ***1955***<br>***(ii) U zone***: N/A.<br>(NM 26/10/67 and 01/09/55) | Workings at the N end of the Eldorado mine extend into the Uranium group of 3 claims. Echo Bay ML dropped its option in 1981 when nothing of economic potential was identified. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NWT. 121 | MOUNTAIN LAKE (YUK & PEC)<br>Esso Res Can (YUK), Cominco L (PEC)<br>86 N/7<br>67°18' 116°51' | Uranium mineralization with associated Cu, Ni, Ag and Co as disseminations in strata-bound lenses, hosted by sandstones of Unit 11, which is 20–100 m thick, bounded by two faults; also some vein fracture mineralization in the Imperial fault. The sedimentary unit is part of the Helikian Dismal Lakes Group. | **1972–78**: radioactive boulders discovered, surface expl, dd; main deposit discovered by dd in 1976. | 1 000 m x 400 m at 0.25% to 1 + % $U_3O_8$<br>***1978***<br>(F Hasard, Geoscience Forum, Yellowknife, 12/78)<br>***or*** 2 260 mt contained $U_3O_8$ (avg grade 0.3–0.5% $U_3O_8$)<br>(W Gibbins ***in*** Mem 8, p 118, Can Soc Petr Geol, 1982) | Mineralization mainly on YUK (Esso Res Can L in 1980), continued into the PEC claims of Aquitaine C of Can L (later Canterra Energy L), where, in 1969, U was first discovered. |
| NWT. 122 | CORONATION (MGB)<br>Range Industries L (in 1975)<br>86 N/8<br>67°20'05" 116°27'00" | Chalcocite and bornite as narrow veinlets in fault hosted qtz veins that crosscut brecciated basalts of the Coppermine River Group. | **1967–69**: prospecting, geol mapping, IP survey, dd 22 holes. | Northwest zone: 131,000 at 2.89% Cu<br>***1968***<br>(GSC, P 70–47, p 115) | Property in Coppermine River area; tonnage and grade based on 8 holes totalling 840'; IP indicates extension of Cu zone along flow–top horizons. Range Industries L was declared bankrupt early in 1976. |
| NWT. 123 | DICK VEIN<br>Pickfields ML (?)<br>86 N/8<br>67°19'50" 116°02'35" | Chalcocite with calcite and qtz in fault breccia zone cutting basaltic flows of the Neohelikian Coppermine River Group . | **1930**: discovery, trenching.<br>**1943–52**: dd.<br>**1955–57**: staking, expl.<br>**1968–69**: EM, IP and mag surveys, dd. | Ind: 90,000 at 8.78% Cu<br>***1954***<br>(Proc GAC, Vol 6, pt II, p 24, 1954) | Property in Coppermine River area; tonnage based on dd, length of 1,100' x width of 10' to 100' depth; possible greater tonnage of 3–4% Cu along full length of lode, traced 3,200'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NWT. 124 | DOT NO 47 (WRECK L)<br>Coppermine River L<br>86 N/8<br>67°24'25" 116°25'00" | Mineralization as a tabular body (1,500' long x 35' wide) containing chalcocite and some bornite in a fractured and shattered zone along fault cutting basaltic flows of the Neohelikian Coppermine River Group. | **1967–68**: geol, EM, IP, mag surveys, dd, arifield, tote roads; milling tests (60% Cu concentrate with 4 to 5 oz/t Ag and 92% Cu recovery).<br>**1971–72**: geochem work.<br>**1981**: results of geochem survey under study. | 4,162,000 at 2.96% Cu, 10% dil (0.6% Cu in dilution WR) ***1969***<br>(FP Surv Ms, p 247, 1970) | Property in Coppermine River area. Est tonnage to 600', open at depth and along strike to SW. |
| NWT. 125 | COPPER LAMB<br>Knud Rasmussen (?)<br>86 N/10<br>67°37'55". 116°51'45" | Massive bornite, some chalcocite and cp in vertical qtz–carb vein in basalts of the Neohelikian Copper Creek Fm – Coppermine River Group. | **1930–32**: discovery, trenching, dd.<br>**1956**: airborne EM, dd.<br>**1966**: dd. | 5,000 at unstated high Cu grade ***1966***<br>(GSC Bull 214, p 6) | Property in Coppermine River area; the vein is less than 200' long and pinches out 20' below surface; avg 47% Cu across 12' at widest point. Six samples assayed 1.10 to 2.67% Ag. |
| NWT. 126 | CARL 7<br>Hearne Coppermine Expls L (dropped claims in 1972)<br>86 N/12<br>67°44'00" 117°35'35" | Chalcocite and malachite occur in a brecciated shear zone in basalts of the Neohelikian Copper Creek Fm – Coppermine River Group. | **1967–68**: prospecting, geol mapping, trenching, geoph surveys, dd. | 125,000 at 2% Cu to 600' ***1968***<br>(NM 10/10/68, p 7) | In Coppermine River area; now open ground. Preliminary drilling indicated a deposit having dimensions 107m x 1.2 m x 46 m deep. |
| NWT. 127 | MUSKOX<br>86 O/3<br>67°03'18" 115°12'12" | The funnel–shaped Middle–Proterozoic Muskox layered, mafic and ultramafic intrusive complex hosts dissem to ms sulphs (po, less cp, pn, carrollite in marginal zones); chromite–sulphide layer up to 15" thick in pyroxenite layers of central layered series. | ***1956–59***: discovery of Muskox Intrusion, geol, EM, mag and gravity surveys, dd.<br>**1986–88**: dd. | 4 500 000 mt at 15.3% Cr, 0.25% Cu, 0.15% Ni,minor Pt and Pd<br>(DIAND NM 1, p 34, 1983) | The Coppermine River crosses the Muskox Intrusion.<br>Work in 1986–88 was carried out by Equinox Res L jointly with Technigen Corp and by Intl Platinum Corp in search of PGE. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NWT. 128 | SOUTH BURNT CREEK<br>Highland–Crow Res L (in 1980)<br>86 O/5<br>67°17′55″ 115°48′55″ | Chalcocite, minor native Cu and associated calcite-qtz in vein within a fault cutting basaltic flows of the Neohelikian Coppermine River Group. | **1929–30**: discovery.<br>**1957**: dd (4 holes) | 20,000 at 9.1% Cu ***1957*** (DIAND AFs; Pan-american Ventures L, 1957) | In Coppermine River area; now open ground. Vein can be traced for 2 440 m and averages 1 m in thickness. |
| NWT. 129 | JUNE<br>Bernack Coppermine Expl L (in 1970)<br>86 O/11<br>67°34′25″ 115°03′30″ | Chalcocite, minor bornite, cp, py occur in a highly fractured/brecciated basalt of the Neohelikian Coppermine River Group. | **1968–69**: discovery, EM and IP surveys, dd. | Proven: 1,000,000 at 2.5% Cu ***1969*** (GSC Bull 214, p 73, 1972) | In Coppermine River area; now open ground. Mineralization is exposed intermittently over 213 m x 4.5 m. |
| NWT. 130 | NERAK<br>Westsun Petrs & Mnrls L (in 1984)<br>86 P/9<br>67°40′40″ 112°28′30″ | Native Ag, argentiferous gal, Co–Ni arsenides in narrow qtz–calcite vein x–cutting crudely–layered metagabbro and Archean (?) gneisses. | **1982–84**: discovery, staking, mapping, VLF and mag, sampling, dd. | 1,350 oz/VF Ag over a length of 143′ ***1983*** (Westsun Petroleums & Minerals L, Prospectus 06/09/84) | South shore of Coronation Gulf, near Arctic Coast, 105 km E of Coppermine; optioned to Echo Bay ML in 1984 and subsequently dropped.<br>Westsun's assets were transferred in 1986 to Westfort Holdings L. |
| NWT. 131 | RAM & ROD<br>Ramrod Mng Corp (in 1980)<br>95 E/12<br>61°32′20″ 127°33′45″ | Pb–Zn sulphides as pods, lenses and in fractures in sheared skarn, at contact of Cretaceous qtz monzonite with Cambrian sediments. The main "B" zone is a vein system with sheared carbonate replaced by sulphides. | **1968–74**: discovery, geol mapping, trenching, sampling, mag and EM and soil geochem surveys.<br>**1975**: dd. | ***"B" zone***: 1,635 T/VF at 5.12% Pb, 5.42% Zn, 0.71 oz/t Ag ***1974*** (W G Timmins 01/08/74, for Vieco Res L ***in*** VSE SMF 30/09/74) | Property at NWT–Yukon border, W of Flat River and 168 km NNE of Watson Lake; tonnage figure based on mapping and trenching/sampling of the "B" zone. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
|---|---|---|---|---|---|
| NWT. 132 | ROY<br>Logan ML<br>95 E/12<br>61°37'10" 127°39'10" | Manto–type replacement deposit. Massive sulphides (gal, sph, py, asp, po) occur in Lower Cambrian dark, cherty beds just below contact with Upper Cambrian to Lower Ordovocian carbonates. Strata dip moderately to steeply north and are cut by E–trending faults and N–trending granitic dykes. Inferred size of the deposit is 1 150 m long, 6m wide and up to 2 m thick. | **1964**: original staking.<br>**1968–69**: staking, geol mapping, trenching, silt sampling.<br>**1979–80**: geol mapping, soil sampling, mag survey, trenching, sampling.<br>**1981–84**: dd, sampling, trenching. | Ind: 160,000 at 0.042 oz/t Au, 4.59 oz/t Ag, 5.24% Pb, 3.11% Zn ***1982***<br>(CMH 1982–83, p 193) | Property on south side of Flat River, 50 km SE of the Canada Tungsten mine. |
| NWT. 133 | PRAIRIE CREEK<br>Procan Expl CL<br>95 F/10<br>61°33'30" 124°47'30" | Veins of massive argentiferous gal and sph plus tetrahedrite, minor cp and py, qtz and minor calcite in a shear zone; hosted by cherty dolostone of the Ordovician Whittaker Fm. | **1928**: discovery.<br>**1959–60**: staking, mapping, trenching.<br>**1966–69**: stripping, geoph, dd, 2 adits, crosscuts.<br>**1970–74**: Penarroya option, dd, drifting, raises, soil geochem, metallurgical testing, option terminated following dispute.<br>**1974–75**: recalculation of reserves, surface and u/g dd, tunnelling.<br>**1981–82**: preprod dev; 1,000 t/d mill erected. | 2,143,000 proven, prob & poss (dil) at 10.9% Pb, 13.5% Zn, 0.52% Cu, 0.087% Cd, 5.58 oz/t Ag ***1974***<br>***or*** Zone 3 only: 1,629,000 prov and poss at 11.16% Pb, 12.17% Zn, 0.44% Cu, 5.4 oz/t Ag ***1982***<br>(NM 21/08/75; CMH 1983–84, p 63) | Prairie Creek is a tributary of the S Nahanni River 176 km W of Fort Simpson. Favourable structure 6 mi x 2 mi contains 12 known mineralized zones. Developing No 3 zone for prod. |
| NWT. 134 | LIN & PIN<br>95 G/2<br>61°11'30" 122°46'35" | Py, cp, minor gal and sph in breccia pods within fracture zone cutting Upper Devonian Simpson Formation shale. | **1966–68**: staking, trenching, gravity, dd (6 holes).<br>**1972**: IP and mag surveys.<br>**1976**: Claims dropped by Avance Int'l Inc. | 220' x 3.5' at 2.25% Cu 1968<br>(L J Manning 29/10/71, for Mt Hyland ML, in VSE SMF 17/04/72) | Main showing on island in Liard River 104 km SW of Fort Simpson; several other breccia bands about 80' x 3' to 5' at c 2% Cu; one vertical hole assayed 3.87% Cu over 48'. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 135 | COATES LAKE<br>Redstone Res Inc<br>95 L/10<br>62°41'30" 126°37'30" | Zambian–type stratiform py, cp, bornite, digenite, chalcocite, covellite, plus malachite and azurite disseminated within beds of Hadrynian limestone and dolomite at transition between red beds and gray Coppercap Fm limestone, Hadrynian Coates Lake Group. | **1960–78**: discovery, sampling, geol, geochem, geoph, dd (includes 24,000' in 1976–77 by Shell Can Res).<br>**1989**: reasssessment. | Dd–ind: 37,000,000 at 3.9% Cu, 0.33 oz/t Ag, over thickness of 3.3' ***or*** 20,500,000 at 4.2% Cu, 0.27 oz/t Ag ***1977***<br>(NM 22/06/78, p 17) | The property lies 160 km W of Wrigley; tonnage and grade calculated for B–1 Cu–bearing bed that dips 30° W with strike length of 20,000', and continues downdip 8,000'. |
| NWT. 136 | JAY<br>Shell Can Res L<br>(c 1982)<br>95 M/13<br>63°49' 127°46' | Py, cp, bornite, digenite, chalcocite and covellite in lensoid Zambian–type copper deposit in dolomites of Lower Coppercap Fm at the top of the Hadrynian Coates Lake Group within the Keele River embayment. | **c 1969**: disc.<br>**1975–76**: dd. | 1 200 000 mt at 2.7% Cu across 12.5 m ***1976***<br>(GAC SP25, p 730, 1982) | Property about 80 km NW of the Redstone River. The mineralized zone is open in two directions. |
| NWT. 137 | JUNE CREEK<br>Shell Can Res L<br>(c 1982)<br>95 M/13<br>63°45' 127°57' | Py, cp, bornite, digenite, chalcocite and covellite in lensoid Zambian–type copper deposit in dolomites of Lower Coppercap Fm at the top of the Hadrynian Coates Lake Group within the Keele River embayment. | **c 1969**: disc.<br>**1975–76**: dd. | Dd–ind: 250 000 at 3.4% Cu ***1976***<br>(GAC SP25, p 730, 1982) |  |
| NWT. 138 | WRIGLEY<br>Cominco L<br>95 O/4<br>63°13' 123°33' | Sph and minor gal disseminated in Middle Devonian bitumen–bearing limestone, but mineralization also appears to lie along fault zones as fracture and breccia fillings; minor smithsonite, cerussite and hydrozincite. | **1967–74**: discovery, trenching, geochem and IP, dd, geol mapping.<br>**1987**: sampling. | Pot: 10,000,000 at 8–10% Pb–Zn ***c 1974***<br>(Equinox Res L, 1987 AR) | The deposit contains about 1 oz/t Ag. Wrigley sphalerite contains about 0.04% Ge. |

|  | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 139 | CANTUNG MINE<br>Canada Tungsten Mng Corp L<br>105H/16<br>61°58′ 128°15′ | The mine consisted of two main separate orebodies occurring where Cambrian nodular limestone was altered to scheelite–bearing cp–po–sph skarn by Cretaceous monzonite intrusions. | **1954**: disc.<br>**1962**: o/p prod started.<br>**1974**: u/g ops started. | 1,400,000 at 1.20% $WO_3$ ***1988***<br>(CMH 1989–90, p 90) | Closed in 1986, pending improved markets. Remains on care and maintenance basis. |
| NWT. 140 | LENED<br>105 I/7<br>62°22′30″ 128°37′00″ | Scheelite, cp in garnet–diopside and massive po skarns in Cambro–Ordovician wavy–banded limestone unit adjacent to a Cretaceous qtz monzonite stock. | **1960–61**: discovery, staking, geol mapping, dd, claims lapsed.<br>**1967**: restaking, soil sampling, mapping, mag survey.<br>**1973**: geol mapping, trenching.<br>**1977**: Union Carbide did geol mapping, soil sampling, EM and mag surveys and dd. | Dd–ind: 750 000 mt at 1.17% $WO_3$ ***1986***<br>(S Hollingsworth, Umetco Mnrls, pers comm June 6/86) | Property 32 km SE of Howards Pass and 48 km NNW of Cantung mine. The deposit contains an estimated 0.15% Cu. |
| NWT. 141 | PR<br>Pete Risby (in 1972)<br>105 I/15<br>62°46′20″ 128°36′25″ | Disseminated py, po, minor cp along thin fractures in bedded limy meta–qtzite and shale, close to a granitic intrusion. | **1971–72**: staking, prospecting, dd (786′ in 5 holes). | 25,000 at 0.5% Cu ***1972***<br>(DIAND AF 019791) | The property is about 48 km NE of Howards Pass. The best intersection graded 0.69% Cu over 10′. |
| NWT. 142 | MACTUNG<br>Canada Tungsten Mng Corp L<br>105 O/8<br>63°17′05″ 130°09′10″ | Scheelite, po and minor cp in several pyroxene–garnet skarn zones developed from calcareous sediments of Cambrian age and from Ordovician–Silurian Road River Fm during intrusion of qtz monzonite stocks. | **1962–68**: discovered from the air, expl and sampling, geochem, mapping, dd.<br>**1973**: adit, crosscuts and u/g dd, metallurgical testing.<br>**1974–77**: environmental and feasibility studies.<br>**1979–80**: dd, u/g bulk sampling, ecological studies. | ***(i) Lower zone***: 6.1 million mt mineable u/g at 1.16% $WO_3$<br>***(ii) Upper zone***: 17.2 million mt mineable by o/p at 0.78% $WO_3$<br>***1983***<br>(Can Tungsten Mng Corp L, Info Circular, 1985) |  |

| | DEPOSIT | GEOLOGY | WORK | TONNAGES & GRADES | REMARKS |
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| NWT. 143 | BEAR–TWIT<br>Welcome North ML (in 1976)<br>106 A/3<br>64°02'50" 129°25'00" | Gal, sph, minor tetrahedrite and greenockite (CdS), qtz and calcite in Silurian–Devonian brecciated dolomites. The mineralization fills crosscutting fractures, forms matrix of breccia, replaces fossils and is disseminated in the rock. | **1972–76**: staking, geochem, dd (optioned by Cominco L, then by Bethlehem Copper Corp) | Dd–ind: 8 to 10 million at up to 5.4% Zn, 2.6% Pb, 0.5 oz/t Ag ***1975–77*** (NM 04/03/76, p 36; CMJ April/77, p 67; DIAND, NM 1, p 31, 1983) | Property straddles Twitya River, 40 km NW of Godlin Lakes.<br>The dd in 1976 by Bethlehem Copper Corp indicated the deposit to be sub–economic. |
| NWT. 144 | GAYNA RIVER<br>Riocanex Inc<br>106 B/15<br>64°56' 130°41' | Carbonate–hosted zinc–lead in Grainstone and Basinal Formations of Hadrynian Little Dal Group. Sphalerite, galena, minor pyrite in breccias, Mississippi Valley–type tabular to pillarlike bodies near stromatolite reefs. | **1974–77**: discovery, geochem, IP, dd (89, 400' in 169 holes)<br>**1978**: geol, geoph, litho–geochem.<br>**1979**: dd. | 50 000 000 mt geol poss at 4.7% Zn, 0.3% Pb ***c 1979***<br>(R S Hewton ***in*** GAC SP25, 1982) | Typical individual dd–ind bodies, where Zn > > Pb: 56,300 at 14.52% Zn–Pb; 95,000 at 9.85% Zn–Pb; 1,066,800 at 4.51% Zn–Pb (CIM, Sp Vol 37, p 667, 1982) |

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| Frederickson Lake | QUE–74 |
| Freegold | ONT–242 |
| French (Oregon) | BC–119 |
| Frobisher | ONT–442 |
| Frond Lake (Fort Hope) | ONT–567 |
| Frontenac Lead Mine (Forbes Galena Mine) | ONT–3 |
| Fuki (Donen) | BC–17 |
| Fuller | ONT–261 |
| Furlonge Lake | ONT–432 |
| FX (Kingfisher) | BC–67 |
| Fyre (Fire) Lake (***see*** Kona) | YT–23 |

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| Gab | NWT–99 |
| Gagné–Dallaire | QUE–148 |
| Gagné–Duchesne (Alotta) | QUE–140 |
| Gal (***see*** Jim & Gal, Zone 1) | SASK–66 |
| Galaxy (***see*** Evening Star) | BC–141 |
| Galena Vein | QUE–354 |
| Gallen (West MacDonald) | QUE–297 |
| Galore Creek | BC–330 |
| Gambier Island | BC–105 |
| Gand No. 1 | QUE–360 |
| Gander River–2 (***see*** First Pond) | NFLD–10 |
| Ganiq | QUE–401 |
| Gar (***see*** Cab) | NWT–91 |
| Garney (***see*** Lanaudière) | QUE–283 |
| Garon Lake | QUE–352 |
| Garrcon | ONT–104 |
| Garrison Hills | NFLD–4 |
| Garrison Township | ONT–97 |
| Gaspé (***see*** Mines Gaspé) | QUE–49 |
| Gates Lake | ONT–433 |
| Gayna River | NWT–144 |

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| Gays River | NS–13 |
| Gee Lake | SASK–11 |
| Gem | BC–123 |
| Gem (***see*** Rancheria) | BC–348 |
| Gem (***see*** Whitehorse Copper Belt) | YT–17 |
| General Electric (***see*** St–Urbain) | QUE–45 |
| Geneva Lake Mine | ONT–139 |
| Genex | ONT–165 |
| GEO (***see*** RN) | BC–112 |
| Geomaque (Silvermaque) | QUE–182 |
| George Copper | BC–316 |
| George Lake | NWT–38 |
| George Lake | SASK–22 |
| Georgia | BC–295 |
| Georgia Lake | ONT–345 |
| Gerle Gold | BC–265 |
| Gertrude | ONT–119 |
| Giant, Novelty | BC–26 |
| Gibson West | ONT–284 |
| Gilmont | QUE–23 |
| Gilmour Lake | NWT–58 |
| Gilmour Mine | ONT–17 |
| Glacier Gulch | BC–233 |
| Glenora | ONT–80 |
| Glenrock | ONT–186 |
| Globe Graphite Mine | ONT–21 |
| Gnat Lake (June, Stikine) | BC–337 |
| Gnawed Mtn (***see*** Ann) | BC–130 |
| Godslith (Bil) | MAN–36 |
| Gogo (***see*** Sachowia Lake) | NWT–21 |
| Goldboro | NS–21 |
| Goldcrest Dyke (***see*** Colomac) | NWT–104 |
| Golden Age | QUE–40 |
| Golden Arrow | ONT–276 |
| Golden Crown (Winnipeg) | BC–4 |
| Golden Eagle | BC–164 |
| Golden Eagle | ONT–475 |
| Golden Fleece (***see*** Addington Mine) | ONT–11 |
| Golden Gate Mine (***see*** Blindfold) | ONT–416 |

Golden Grove NB–8
Golden Hope (*see* Estrades) QUE–332
Golden Hope Mine ONT–568
Golden Pond (*see* Mines Casa Berardi) QUE–333
Golden Queen and St. Elmo BC–27
Golden Sceptre ONT–334
Golden Star ONT–406
Golden Stranger BC–268
Goldenville NS–8
Goldex QUE–183
Goldfields (*see* Snow Lake) MAN–75
Goldfields Showing 50–DD–10 SASK–79
Goldfields Showing 50–DD–97 SASK–80
Goldfinch BC–59
Gold Frontier ONT–529
Goldhawk ONT–290
Gold Hawk QUE–238
Gold Lake MAN–16
Goldlund ONT–485
Goldmaster QUE–155
Gold Mountain ONT–419
Gold Mtn (Pollock) BC–120
Gold Reef MAN–45
Gold Rock MAN–66
Goldvue QUE–225
Golsil (Berens River Mine) ONT–575
Gondor NWT–34
Goodenough MAN–95
Goodfish (Murray) ONT–243
Goodwin Lake (Maliseet) NB–28
Goose Pond QUE–84
Gordon Claim ONT–471
Goshen NB–11
Gosselin ONT–224
Gotcha BC–80
Goudreau ONT–318
Goudreau Range ONT–329
Goulais River ONT–182
Goz Creek YT–45
Grader (*see* Allard Lake Area) QUE–8
Graham (Batty–Graham) SASK–8
Grainfield NB–17
Granada QUE–263
Grandroy QUE–373
Granduc BC–318
Granisle BC–238
Granite Mountain BC–116
Graphite Lake ONT–40
Grass MAN–83
Grassy Portage Bay ONT–410
Great Burnt Lake NFLD–24
Great Lakes Nickel ONT–385
Great Slave Reef (AX–WD) NWT–43
Green Bay (*see* Lit) MAN–48
Green Coast ONT–392
Greg (*see* Shorty 1) NWT–67
Grevet B QUE–336
Grevet M QUE–337
Grew Creek (Canyon) YT–28
Greyhawk ONT–47
Greyhound BC–5
Grey River Tungsten NFLD–22
Griswold (*see* Russnor) BC–156
Groundhog ONT–305
Groundhog (Silver Creek Showing) YT–20
Groves (Eveco) ONT–230
Guder (Margarete/Augusta) YT–66
Gui–Por ONT–187
Gulch Cove NFLD–23
Gulch Mine SASK–57
Gullbridge (Mineral Point) NFLD–44
Gull Island ONT–420
Gunn Zone (*see* HD) BC–208
Gunnar ONT–277
GW Group NWT–118
Gwillim Gold QUE–374
Gwillim Lake MOP–II QUE–375

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| Hackett River | NWT–35 |
| Halcrow Swayze (*see* Belcher) | ONT–207 |
| Half Mile Lake | NB–29 |
| Hall (*see* Rottenstone L) | SASK–44 |
| Hall, Altoona | BC–38 |
| Hallam | ONT–110 |
| Halliwell | QUE–279 |
| Hall Lake Zone (*see* Halo) | ONT–36 |
| Hall Mine | QUE–31 |
| Hallnor Mine | ONT–298 |
| Halo (Hall Lake Zone) | ONT–36 |
| Hambone | MAN–85 |
| Hammond Reef | ONT–398 |
| Ham–Nord (*see* Troysco) | QUE–20 |
| Handcamp | NFLD–47 |
| Hank | BC–327 |
| Hannam Claims | ONT–340 |
| Hanson–Campbell | ONT–546 |
| Hanson Lake (McIlvenna Bay) | SASK–6 |
| Harcourt (Mumford) | ONT–37 |
| Harding Lake (*see* Paint) | NWT–53 |
| Hard Rock Mine | ONT–348 |
| Harker | ONT–98 |
| Harlight | ONT–99 |
| Harper Creek | BC–77 |
| Harricana | ONT–498 |
| Harricana | QUE–184 |
| Harrigan Cove | NS–6 |
| Harrison | BC–210 |
| Harrison Minerals | ONT–69 |
| Harrison Scheelite | BC–211 |
| Harrison (Seneca) | BC–111 |
| Hart (CMC) | YT–10 |
| Hart River (Mark Group) | YT–78 |
| Harvey Hill | QUE–38 |
| Hasaga Mine | ONT–547 |
| Haskin Mtn SE (Joem, Rain, Dako) | BC–356 |
| Haskin Mtn West (Joem, Rain) | BC–352 |
| Hawk (Klastine) | BC–334 |
| Hawk Creek | BC–82 |
| Haynes Lake (PB 81–179) | BC–19 |
| HD (Gunn Zone) | BC–208 |
| Headvue | ONT–376 |
| Headwater | ONT–285 |
| Headway | NB–51 |
| Heath Steele | NB–30 |
| Height of Land | QUE–309 |
| Hematite Bay | QUE–376 |
| Heninga Lake | NWT–9 |
| Henning–Maloney Mine | SASK–1 |
| Hep | BC–179 |
| Hermina Mine | ONT–146 |
| Hermiston–McCauley | ONT–63 |
| Hervieux Lake (*see* De La Blache) | QUE–65 |
| Héva Mine | QUE–251 |
| Hewfran | QUE–343 |
| Hid | NWT–57 |
| Hidden Creek (Anyox) | BC–299 |
| Hidden Lake (FI & KI) | NWT–66 |
| Hi Do (Pellaire) | BC–193 |
| High Lake | NWT–39 |
| High Lake Prospect | ONT–428 |
| High Lake–Porphyry Zone | ONT–429 |
| Highmont (*see* Minex) | BC–134 |
| High Rock Island (*see* Island Lake) | MAN–32 |
| High Rock Mine | QUE–110 |
| Hi Ho | BC–100 |
| Hillsborough | NB–14 |
| Hislop | ONT–286 |
| Hodder | NFLD–59 |
| Holdsworth | ONT–319 |
| Holdsworth Pyrite | ONT–320 |
| Holliday | BC–346 |
| Hollinger | ONT–262 |
| Hollinger–Loveland | ONT–303 |
| Homer | NWT–83 |
| Homestake | BC–70 |
| Honeysuckle | MAN–62 |

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| Hood River (***see*** Takijuq Lake) | NWT–116 |
| Hoodoo | ONT–306 |
| Hope No. 2 | BC–35 |
| Hopes Advance Bay, Nos. 1 and 1N | QUE–90 |
| Hopes Advance No. 3 | QUE–91 |
| Hopkins (Acme) | YT–61 |
| Hopkins–Heinzman | ONT–421 |
| Horden Lake (***see*** Chaboullié) | QUE–397 |
| Horn | YT–42 |
| Horn (Bleasdell Lake) | SASK–21 |
| Horne Mine | QUE–280 |
| Horseshoe (***see*** Raven) | SASK–23 |
| Horseshoe Island | ONT–557 |
| Hosco | QUE–252 |
| Howard (Little Clam) Lake | SASK–29 |
| Howard's Pass | YT–26 |
| Howe Copper | BC–106 |
| Howey Mine | ONT–548 |
| Hoyle Mine | ONT–299 |
| H.P.H. (***see*** Nahwitti Lake) | BC–181 |
| Huckleberry | BC–214 |
| Hudson Bay | ONT–7 |
| Hudson Bay Mine | ONT–218 |
| Hudson–Rand | ONT–244 |
| Humlin Red Lake | ONT–549 |
| Hundere (Mica) | YT–4 |
| Hunt (Belgian) Mine | ONT–52 |
| Hunter | BC–283 |
| Hunter | ONT–263 |
| Hunter Mine | QUE–322 |
| Huntingdon | QUE–118 |
| Hushamu Lake (Expo) | BC–180 |
| Hydra (***see*** Colomac) | NWT–104 |
| Hydraulic Lake (***see*** Kettle) | BC–20 |
| Hyers Island (Lynx) | MAN–39 |
| Hyland JV (***see*** Porker) | YT–3 |
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| Inda Lake | NFLD–62 |
| Independence (***see*** Rita No. 1) | MAN–28 |
| Indian (***see*** Bain) | QUE–92 |
| Indian Chief | BC–90 |
| Indicator | QUE–70 |
| Indigo (***see*** Arseno) | NWT–103 |
| Inmont | QUE–281 |
| Interlake | ONT–335 |
| International Lithium | QUE–310 |
| Intex–Frankfield | ONT–300 |
| Irgon | MAN–13 |
| Iris | ONT–100 |
| Iron Cap (***see*** Joe) | BC–357 |
| Island Lake (High Rock Island) | MAN–32 |
| Island Mtn (Aurum) | BC–223 |
| IT Group | MAN–92 |
| Ives Mine | QUE–119 |
| Ivry Mine | QUE–128 |
| Ivy | SASK–39 |
| Izok Lake | NWT–115 |
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| JA | BC–131 |
| J.A. MacDougall Prospect | NS–37 |
| Jack Pot | BC–22 |
| Jackson | QUE–226 |
| Jacks Pond | NFLD–28 |
| Jacobus | ONT–365 |
| Jacola (***see*** Stabell) | QUE–202 |
| Jaculet Mine | QUE–377 |
| Jake | NWT–52 |
| James Lake (***see*** Currie–Mills) | QUE–358 |
| Jan (***see*** Bam, Arctic Lake) | BC–328 |
| Jardun Mine | ONT–180 |
| Jarvis Deep | ONT–181 |
| Jason | YT–38 |
| Jasper & James Zones (***see*** Fork Lakes) | SASK–40 |
| Jax Lake | NWT–29 |
| Jay | NWT–136 |
| JB (***see*** Pitman) | BC–292 |
| JC (Viola) | YT–8 |
| Jean Lake | ONT–346 |

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| Jeep Mine | MAN–25 |
| Jefferson (*see* Stackpool) | ONT–212 |
| Jericho | BC–132 |
| Jerome Mine | ONT–202 |
| J.E.S. | NWT–94 |
| Jessie Lake (*see* Sylvanite) | ONT–449 |
| Jim | SASK–73 |
| Jim & Gal, Zone 1 | SASK–66 |
| Jimmick Lake | QUE–71 |
| J & L | BC–75 |
| Jingo (Dingo) | NWT–109 |
| Joannie | MAN–71 |
| Joburke | ONT–209 |
| Joburke Mine | ONT–307 |
| Joe (Iron Cap) | BC–357 |
| Joem, Rain (*see* Haskin Mtn. West) | BC–352 |
| Joem, Rain, Dako (*see* Haskin Mtn. SE) | BC–356 |
| Jogran (Bjornas–Dale) | ONT–188 |
| Johnson | NS–36 |
| Johnston Lake (*see* J.E.S.) | NWT–94 |
| Johobo | YT–56 |
| Joiner | Ont–38 |
| Jojay | SASK–42 |
| Jolin | QUE–214 |
| JON Deposit | NWT–32 |
| Joon (*see* June) | NWT–59 |
| Jordan River (*see* Sunro) | BC–89 |
| Joseph Claims | QUE–163 |
| Josephis Lake | QUE–10 |
| Josselin–Tonnancourt | QUE–230 |
| Joubi | QUE–185 |
| Joutel Copper | QUE–329 |
| Jowsey Island | MAN–35 |
| Joyceville | ONT–4 |
| Jubilee (*see* Elora) | ONT–461 |
| Julian (*see* Squall Creek) | MAN–76 |
| June | NWT–129 |
| June (Joon) | NWT–59 |
| June, Stikine (*see* Gnat Lake) | BC–337 |

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| Juneau Lake | ONT–380 |
| June Creek | NWT–137 |
| Jungle Lake | MAN–79 |
| Jutten | ONT–517 |
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| Kachiwiss Lake | QUE–64 |
| Kane (Tut) | YT–55 |
| Kapkichi Lake | ONT–561 |
| Karl–Zeemel | ONT–570 |
| Kasagimminis Lake | ONT–562 |
| Katiniq (*see* Raglan Nickel) | QUE–404 |
| Kayorum | ONT–264 |
| Keeley and Frontier | ONT–64 |
| Keewenaw (*see* Whitehorse Copper Belt) | YT–17 |
| Kelligrews (*see* Manuels) | NFLD–6 |
| Kellogg (Rinfret) | QUE–378 |
| Kelly Creek | BC–288 |
| Kelly–Desmond (*see* Cons. Northern Exploration) | QUE–328 |
| Kelly–K | ONT–128 |
| Kelly Lake | QUE–145 |
| Kelore | ONT–278 |
| Kenbridge (Populus Lake) | ONT–443 |
| Kendon | ONT–381 |
| Kenmac Chibougamau | ONT–30 |
| Kennedy–Boston | ONT–81 |
| Kennedy Lake | NWT–23 |
| Kenogaminisis Lake | ONT–349 |
| Kenricia Mine | ONT–422 |
| Kenty Lake (*see* Delta) | QUE–403 |
| Kenty Mine | ONT–208 |
| Kerr | BC–321 |
| Kerralda (*see* Donalda) | QUE–295 |
| Kert | QUE–94 |
| Kettle (Hydraulic Lake) | BC–20 |
| Ketza Key (see Stump) | YT–19 |
| Kewagama | QUE–239 |
| Key (*see* Stump) | YT–19 |
| Key Anacon | NB–52 |

Kicking Horse (*see* Monarch) BC–85
Kidd No. 1 ONT–472
Kiena QUE–186
Kiggavik (Lone Gull) NWT–12
KIM NWT–105
Kimberley (*see* MD) BC–142
Kingbridge ONT–231
King Edward (*see* Susap) BC–13
Kingfisher (*see* FX) BC–67
King Fissure BC–68
Kirana Kirkland ONT–245
Kirkham QUE–95
Kirkham Graphite ONT–10
Kitsault BC–304
Kitts Prospect NFLD–64
Klastline (*see* Hawk) BC–334
Klisum BC–263
Knife (*see* Mokoman) Lake SASK–14
Knife Lake QUE–68
K–Nuts QUE–58
Kodiac Club (*see* Whitehorse Copper Belt) YT–17
Kof Zone (*see* Farewell Lake) MAN–56
Koke QUE–80
Kokko Creek QUE–379
Komis SASK–16
Kona (Fyre Lake) YT–23
Konigson ONT–434
Kontiki QUE–56
Kootenay King BC–45
Koval–Ohman ONT–559
Kozak ONT–321
Krain BC–146
Kristina Mine ONT–183
KT (*see* Norris Lake) NWT–102
Kutcho Creek (Letain) BC–339
Kutcho Creek (*see* SMRB, Jeff) BC–336
Kwanika BC–252
Labonté QUE–335
Lac au Vent (*see* Allard Lake Area) QUE–8
Lac Bat Le Diable (*see* Allard Lake Area) QUE–8
Lac Brisson, Nfld–Que (*see* Strange Lake) NFLD–66
Lac Céré (*see* Certac) QUE–341
Lac Cinquante (LGT, Yathkyed Lake) NWT–11
Lac Croche QUE–67
Lac des Vents (*see* Windy Lake) QUE–359
Lac Doré QUE–380
Lac Édouard QUE–153
Lac des Iles ONT–496
Lac des Vents (*see* Windy Lake) QUE–359
Lac La Croix ONT–391
Lac Marteau (*see* Allard Lake Area) QUE–8
Lacnor ONT–166
Lacoma QUE–156
Lac Pascalis QUE–215
Lac Rouleau QUE–355
Lac Tio NW (*see* Allard Lake Area) QUE–8
Lafond ONT–82
Lafontaine (Norzinc) QUE–131
Laforma YT–67
Laguerre (*see* Raven River) ONT–88
Laguna Mine MAN–46
Lake Bond NFLD–45
Lake Cinch SASK–74
Lake Dufault No 1 QUE–282
Lake Expanse QUE–146
Lake Fortune QUE–264
Lake Monté (*see* Richmond Gulf) QUE–402
Lakemount ONT–322
Lake Rose QUE–339
Lake Zone (*see* Thor) NWT–48
La Manche NFLD–9
Lamaque Mine QUE–187
Lamy QUE–150
Lanark NS–27
Lanaudière (Garney) QUE–283
Lang Creek BC–101

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| Lang Lake | ONT–566 | Lili (Sterrett) Mine | QUE–121 |
| Langmuir | ONT–265 | Lily | BC–278 |
| Lapa Cadillac | QUE–240 | Lime Hill | NS–28 |
| Lar (***see*** Laurie Lake) | MAN–93 | Limerick (***see*** Macassa Deposit) | ONT–18 |
| Lara | BC–87 | Lin & Pin | NWT–134 |
| La Ribourde–Saussure | QUE–361 | Linda–McKayseff | MAN–47 |
| Lark | NWT–79 | Lindsley | ONT–129 |
| La Ronge | SASK–37 | Lingman Lake | ONT–579 |
| La Scie Quartz Vein | NFLD–17 | Lingwick | QUE–17 |
| Lasthope | MAN–91 | Linklater Island | MAN–33 |
| Launay–Privat (***see*** Messeguay) | QUE–319 | Lise Lake (***see*** Brûlé Lake) | QUE–60 |
| Launay–Trécesson (***see*** Dumont) | QUE–317 | Lit (Green Bay) | MAN–48 |
| Laura Lake | QUE–362 | LITA 1–4 (***see*** McDonald Dyke) | NWT–60 |
| Laurel Lake | SASK–4 | Little Clam (***see*** Howard) Lake | SASK–29 |
| Laurentian Mine | ONT–462 | Little Deer Mine | NFLD–49 |
| Laurie Lake (Lar) | MAN–93 | Little Gem | BC–159 |
| Leadville (***see*** Smithfield) | NS–15 | Little Jumbo | ONT–473 |
| Leeds Metals | QUE–44 | Little Magog Lake | QUE–115 |
| Lefever–Silams | ONT–308 | Little River Deposits (Wightman) | NS–46 |
| Legacy (***see*** McKenzie Gulch) | NB–42 | Little Sandy Prospect | NFLD–34 |
| Leipsigate | NS–42 | Little Stull Lake | MAN–34 |
| Leitch | QUE–132 | Lochaber Lake | NS–16 |
| Leitch | ONT–503 | Lochalsh | ONT–330 |
| Lened | NWT–140 | Lockport Mine | NFLD–13 |
| Lens 1 (***see*** Buckam Lake) | NWT–47 | Lodestone Mountain | BC–117 |
| Leslie No 2 | QUE–85 | Logan | YT–11 |
| Lessard (***see*** Domergue Lake) | QUE–393 | Logjam Silver (Barb–Log) | YT–9 |
| Letain (***see*** Kutcho Creek) | BC–339 | Logtung | YT–7 |
| Le Tac | QUE–344 | Lone Gull (***see*** Kiggavik) | NWT–12 |
| Leta Zone 1 (***see*** Lexindin) | NWT–106 | Long Lake Gold Mine | ONT–120 |
| Lett Lake | QUE–147 | Lonnie | BC–251 |
| Lewis Brook | NFLD–40 | Lookout | YT–32 |
| Lexindin (Leta Zone 1) | NWT–106 | Loon Call (***see*** Zenmac) | ONT–24 |
| Lexington (***see*** City of Paris) | BC–3 | Lorado Mine | SASK–58 |
| Lex Lake (***see*** KIM) | NWT–105 | Lorraine | BC–256 |
| LGT (***see*** Lac Cinquante) | NWT–11 | Lost Lake (SH) | NWT–13 |
| L.H. | BC–39 | Lotus | MAN–58 |
| LI (***see*** Nite) | NWT–84 | Louanna | ONT–382 |
| Libbey (***see*** Brookfield) | NS–41 | Louvem (Aur) | QUE–188 |

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| Louvicourt Deposit (Nine Mile Brook) | NB–53 |
| Louvicourt Goldfield (Simkar) | QUE–189 |
| Lower Mine (Cain) | NS–43 |
| Lubra (*see* Mosquito Creek) | YT–75 |
| Lucas | ONT–304 |
| Lucky Coon | ONT–407 |
| Lucky Four | BC–110 |
| Lucky Jem | BC–160 |
| Lucky Joe | YT–76 |
| Lucky Mike | BC–133 |
| Lucky Seven | BC–314 |
| Lucky Ship | BC–228 |
| Lucky Strike | BC–161 |
| Lucy No. 1 | MAN–1 |
| Ludgate Lake | ONT–279 |
| Luleo (Poundmaker) | MAN–27 |
| Lun–Echo | ONT–486 |
| Lun–Echo (Mavis Lake) | ONT–480 |
| Lustdust | BC–253 |
| Lyndhurst | QUE–318 |
| Lynn Creek | BC–102 |
| Lynn Lake Mine | MAN–96 |
| Lynx (*see* Hyers Island) | MAN–39 |
| Lynx Canada – Onaman Lake | ONT–377 |
| Lynx (Obaska) | QUE–347 |
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| MAC | NWT–5 |
| MAC 1 (*see* McDonald Dyke) | NWT–60 |
| Macassa (Limerick) Deposit | ONT–18 |
| MacBride Lake | MAN–90 |
| MacDougall (*see* J.A. MacDougall Prospect) | NS–37 |
| MacInnis Lake (Dassault Deposit) | NWT–19 |
| Mack | BC–353 |
| MacKay (*see* Evans) | NS–35 |
| Mackenzie Mine | ONT–130 |
| Macketta | MAN–22 |
| MacLeod–Cockshutt | ONT–350 |
| MacMillan Mine | NS–38 |
| MacMillan–Granges | ONT–328 |

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| Mactung | NWT–142 |
| Macwin (Wingait) | QUE–265 |
| Madeleine Islands | QUE–1 |
| Madeleine Islands Silica | QUE–2 |
| Madeleine Mine | QUE–63 |
| Madsen Mine | ONT–521 |
| Magdalena | ONT–476 |
| Maggie | BC–150 |
| Magnet Consolidated | ONT–354 |
| Magnet Cove (*see* Walton) | NS–47 |
| Magno (Silver Queen) | BC–354 |
| Magnum | BC–275 |
| Magpie Mtn (Mingan) | QUE–69 |
| Magusi | QUE–284 |
| Mahe | NWT–74 |
| Main Oka (*see* St. Lawrence Columbium) | QUE–107 |
| Makaoo (*see* Python) | BC–143 |
| Malagash | NS–20 |
| Malartic Gold Fields | QUE–190 |
| Maliseet (*see* Goodwin Lake) | NB–28 |
| Malrobic | QUE–241 |
| Mamie | BC–234 |
| Manitoba and Eastern | ONT–65 |
| Manitou | QUE–191 |
| Manitou Island | ONT–463 |
| Manitou Islands | ONT–57 |
| Mann | ONT–219 |
| Manoka | QUE–105 |
| Manuels Kelligrews | NFLD–6 |
| Maple Bay | BC–300 |
| Mar | YT–51 |
| Marg | YT–48 |
| Margarete/Augusta (*see* Guder) | YT–66 |
| Maricona | ONT–189 |
| Mariner | NWT–117 |
| Mark Group (*see* Hart River) | YT–78 |
| Markes | ONT–331 |
| Marmora | ONT–2 |
| Marn | YT–79 |

Marshall BC-6
Marshall (*see* McCrea) ONT-85
Martin–Bird ONT-83
Martin, FM ONT-436
Martin–Kenty ONT-444
Martison Lake ONT-374
Marymac QUE-79
Maskwa West MAN-8
Massberyl QUE-210
Massey ONT-147
Massey–Tintina (Alexander) ONT-116
Mastadon BC-2
Master (Destorada–Iron Bridge) ONT-157
Matachewan Consolidated ONT-236
Matheson (*see* Bird–Ginn) ONT-102
Matona ONT-225
Mattagami Lake Ni–Cu QUE-348
Mattagami River ONT-373
Mattawa Vanadium–Iron ONT-56
Mattawasaga ONT-105
Matt Berry (Barb) YT-25
Matthews Mine ONT-8
Maurice Bay SASK-55
Mavis Lake (*see* Lun–Echo) ONT-480
Maw SASK-47
Maybrun Mine – Atikwa Lake ONT-445
May & Jennie BC-28
Maylac Mine ONT-368
May–Spiers ONT-530
Mayville MAN-14
MC Group YT-57
McArthur River SASK-48
McBean ONT-84
McCafferty MAN-49
McClean Lake SASK-27
McCrea (Marshall) ONT-85
McCombe (Root Lake) ONT-518
McDame Belle BC-358
McDonald Dyke (MAC 1, LITA 1–4) NWT-60
McFinley Red Lake ONT-550
McIluenna Bay (*see* Hanson Lake) SASK-6
McIntyre Porcupine (Schumacher) ONT-266
McKenzie Gulch (Legacy) NB-42
McKenzie (Peg) SASK-17
McLellan Gold Mine ONT-355
McMaster NB-37
McMillan ONT-111
McMillan (Quartz Lake) YT-2
McRae (*see* Allard Lake Area) QUE-8
McVicar BC-107
McVittie ONT-499
McVittie–Graham ONT-121
McWatters ONT-267
McWatters QUE-253
MD (Kimberley) BC-142
Meat Cove NS-39
Mégantic (*see* Continental) QUE-21
Mekoos Group (*see* Axe Lake) QUE-136
Mel YT-1
Melba ONT-280
Melbourne (*see* Derogan) QUE-120
Mell–Quirk ONT-48
Mel Zone MAN-87
Mer BC-148
Meridan Bay ONT-477
Merrill Island QUE-381
Messeguay (Launay–Privat) QUE-319
Meston Lake QUE-356
Meta Uranium (*see* Tor) SASK-68
Mets BC-269
MGB (*see* Coronation) NWT-122
Mica (*see* Hundere) YT-4
Michelin NFLD-61
Michiwakenda Lake ONT-226
Mic Mac (*see* Mouska) QUE-298
Middle Landing (Key Anacon) NB-51
Middle River (Smith) NB-38
Middle River (Second Gold Brook) NS-33

Midlothian ONT–233
Mid–Patapedia QUE–47
Midrim QUE–141
Midway BC–347
Midwest Lake SASK–52
Mikado Mine ONT–423
Mile Lake NS–24
Miles Cove Mine NFLD–14
Milgate (Abbican) ONT–158
Millaqua ONT–167
Miller Lake O'Brien ONT–220
Millet Brook NS–44
Millie Mack BC–47
Mills (***see*** Allard Lake Area) QUE–8
Mills (***see*** Currie–Mills) QUE–358
Millstream Hendry NB–56
Milree Syndicate ONT–446
Miminiska Lake ONT–569
Minago River (Reservation 34) MAN–40
Minaki Pyrite ONT–525
Mindamar (***see*** Stirling) NS–26
Mineral King BC–49
Mineral Point (***see*** Gullbridge Mine) NFLD–44
Mines Gaspé QUE–49
Mines Casa Berardi (Golden Pond) QUE–333
Mine School QUE–192
Minex (Highmont) BC–134
Mingan (***see*** Magpie Mtn) QUE–69
Ming Mine (***see*** Rambler Ming Mine) NFLD–55
Ming West NFLD–51
Minto ONT–221
Minto/Def (Boundary) YT–71
Minto (Discovery) YT–72
Miquelon (***see*** Rundle No 2) ONT–211
Mironsky ONT–411
Misty BC–255
Mitchell Lake (Ribb) NWT–75
MNW Group ONT–495
Moak Mine MAN–88
Moe River QUE–11
Mogador (***see*** Bardome Project) QUE–207
Mohawk BC–190
Mokoman (Knife) Lake SASK–14
Moléon Lake QUE–394
Molly (***see*** Mount Thomlinson) BC–247
Molly Gibson BC–36
Moly (***see*** Bell Moly) BC–304
Moly Hill QUE–311
Monarch (Kicking Horse) BC–85
Mongowin Pluton (***see*** Owen Prospect) ONT–112
Monique QUE–164
Monk Gold ONT–196
Monpas QUE–227
Montague Gold District NS–1
Montauban QUE–126
Montcalm ONT–315
Montcalm (***see*** Packsack) MAN–18
Montclerg ONT–291
Monte Cristo ONT–447
Montreal Mine QUE–32
Moose MAN–17
Moose No. 2 Dyke NWT–46
Moose (***see*** Barite) YT–37
Mooseland NS–3
Moose River NS–4
Mordey ONT–251
Morgan Lake MAN–72
Morris BC–183
Morrison BC–241
Mosher ONT–351
Mosher Lake (MOS) NWT–95
Mosquito Creek (CCL and Lubra) YT–75
Mosquito King BC–71
Moss Mine QUE–96
Moss 1 (***see*** Ferguson Mine) MAN–43
Mother Lode & Sunset BC–7
Mountain Lake (YUK & PEC) NWT–121
Mount Costigan NB–22

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| Mt. Hinton | YT–35 |
| Mount Milligan | BC–248 |
| Mount Nansen (Webber–Huestis) | YT–63 |
| Mt. Ogden | BC–340 |
| Mt. Olivine | QUE–55 |
| Mt. Pincourt (***see*** Nicobi Lake) | QUE–345 |
| Mount Pleasant | NB–6 |
| Mt. Polley (***see*** Cariboo Bell) | BC–205 |
| Mount Reid (***see*** Skukum Creek) | YT–16 |
| Mt. St–Sebastian (Copperstream–Frontenac) | QUE–25 |
| Mount Thomlinson (Molly) | BC–247 |
| Mt. Washington (***see*** Murex Creek) | BC–99 |
| Mt. Washington (***see*** Domineer) | BC–98 |
| Mouska (Mic Mac) | QUE–298 |
| Mozzie Lake Area | SASK–94 |
| MQ (DAF) | NWT–76 |
| Mud Pond | NFLD–52 |
| Mud River (***see*** Swamp (Mud) River) | ONT–394 |
| Multi–Minerals | ONT–206 |
| Mumford (***see*** Harcourt) | ONT–37 |
| Murex Creek (Mt. Washington) | BC–99 |
| Murphy (BB Zone, Bighill Lake) | NWT–49 |
| Murray (***see*** Goodfish) | ONT–243 |
| Murray Brook | NB–38 |
| Murray Mine | ONT–136 |
| Murray–Algoma | ONT–323 |
| Musk Group | NWT–36 |
| Muskox | NWT–127 |
| MUT (***see*** Buckham Lake) | NWT–47 |
| M.W.K. – Zone 1 (***see*** O'Connor Lake) | NWT–18 |
| Myrt (***see*** WT) | NWT–77 |
| Mystery Lake South | MAN–89 |

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| Nadina (Silver Queen) | BC–226 |
| Nagy | BC–124 |
| Nahwitti Lake (H.P.H.) | BC–181 |
| Nama Creek | ONT–500 |
| Nancy Island (***see*** Richmond Gulf) | QUE–402 |
| Nanika (DW) | BC–217 |

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| Nantucket Island | NB–1 |
| Narco | QUE–139 |
| Nash Lake | NFLD–63 |
| National Asbestos | QUE–33 |
| Naybob | ONT–268 |
| Nemegosenda Lake | ONT–311 |
| Nemeiben Lake | SASK–31 |
| Nepisiquit "A", "B" and "C" | NB–31 |
| Nepton Bay | QUE–382 |
| Nerak | NWT–130 |
| New Bidlamaque | QUE–193 |
| New Calumet Mine | QUE–97 |
| Newconex Figuery | QUE–312 |
| Newcor Mine | SASK–2 |
| New Dominion | ONT–142 |
| Newfield | ONT–106 |
| New Golden Rose | ONT–144 |
| New Hosco | QUE–353 |
| New Insco (Fabie Bay) | QUE–285 |
| New Kelore | ONT–487 |
| Newkirk B Group (***see*** Zenmac) | ONT–24 |
| New Manitoba (***see*** Eagle) | MAN–10 |
| New Marlon | QUE–286 |
| Nezah | ONT–359 |
| Nicholas Lake | NWT–100 |
| Nickel King (Thye) | NWT–17 |
| Nickel Offsets | ONT–301 |
| Nickel Offsets Mine | ONT–141 |
| Nickel Rim Mine | ONT–131 |
| Nicobi Lake (Mt. Pincourt) | QUE–345 |
| Nicopar | ONT–338 |
| Ninemile Brook (***see*** Louvicourt Deposit) | NB–53 |
| Nisto | SASK–90 |
| Nite (LI) | NWT–84 |
| Nokomis Lake | MAN–80 |
| Nor–Acme Mine | MAN–73 |
| Noranda Shakespeare | ONT–117 |
| Norbeau Mine | QUE–383 |
| Norcourt (***see*** Brosnor) | QUE–159 |

Nordeau (*see* Vauquelin) QUE–169
Nordic ONT–168
Norex NWT–111
Norlartic QUE–194
Norma (Beaulieu) NWT–61
Normandie–Penhale QUE–34
Norman Lake QUE–242
Normetal Tailings (*see* Normetmar) QUE–326
Normetar QUE–326
Norris Lake MAN–67
Norris Lake (KT) NWT–102
Northair (Warman) BC–151
Northern Empire ONT–360
Northern Nuclear (Wadasa) ONT–31
North Howard (*see* Suffield Zone) QUE–15
North Inca NWT–107
North Lake (CBS 7396) SASK–33
North Pascalis QUE–195
North Range ONT–137
North Siscoe (*see* Siscoe Extension) QUE–200
North Star (*see* Big Star) BC–171
North Star BC–309
Northwest BC–291
Norton Lake ONT–384
Norzinc (*see* Lafontaine) QUE–131
Norzone (*see* Beaudry) QUE–260
Nose Cls (*see* Clan Lake) NWT–87
Novelty (*see* Giant) BC–26
Nucleus YT–68
Nudulama ONT–313
Nugget Pond NFLD–18

Obalski Mine QUE–384
Obaska (*see* Lynx) QUE–347
Obonga Lake ONT–508
O'Brien Mine ONT–53
O'Brien (Darius) QUE–243
O'Connor Lake (M.W.K.–Zone 1) NWT–18
Odon Lake QUE–392
Ogama–Rockland MAN–23
O.K. (Alwin) BC–128
O.K. BC–165
Oka Columbium QUE–103
OLA (*see* BBB) NWT–93
Oldham District NS–2
Old Nick BC–10
O'Leary Malartic QUE–266
Olive (Preston) ONT–413
Olympus (Stanleyville) ONT–22
Omega ONT–86
Omya–Koizumi ONT–12
O'Neill–Thompson QUE–254
Opapimiskan Lake ONT–571
Opémisca Explorers QUE–363
Orb Zone 6A SASK–75
Ore Chimney ONT–19
Ore Fault MAN–4
Oregon (*see* French) BC–119
Oremond ONT–361
Orenada QUE–196
Oro Denoro BC–8
Orpit ONT–252
Orrwell (Bouthillier) QUE–133
Orvan Brook NB–40
Osborne Lake MAN–50
Outsider BC–301
Owen Prospect (Mongowin Pluton) ONT–112
Owl Creek (Copper Queen) BC–154
Ox–C BC–215
Ox Lake BC–216

P–218 (*see* Thrasher) ONT–431
Pabineau NB–54
Packsack (Montcalm) MAN–18
Paddle ONT–5
Paddy–Carol YT–36
Page MAN–5
Paint (*see* Harding Lake) NWT–53

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| Pambrun Lake | QUE–66 |
| Pan Showing | NWT–33 |
| Pancake Lake | ONT–190 |
| Pancho | NWT–50 |
| Pandora | QUE–244 |
| Panet Metals (Champagne) | QUE–41 |
| Pap Lake | SASK–34 |
| Paradise | BC–50 |
| Parbec | QUE–245 |
| Parkhill Mine | Ont–197 |
| Partington No 1 (Crotchet Lake) | QUE–86 |
| Partridge Zone (***see*** EP zone) | SASK–15 |
| Parvus Red Lake | ONT–551 |
| Pascalis (***see*** North Pascalis) | QUE–195 |
| Patton Hill (***see*** Casino) | YT–74 |
| Paul (Cameron) | YT–50 |
| Paulpic | ONT–378 |
| Paul Zone 2 | SASK–67 |
| Pawnee–Kirkland | ONT–87 |
| Pay | BC–125 |
| Pay Dirt | BC–331 |
| Paymaster | ONT–269 |
| Payne | BC–46 |
| Paynter | ONT–152 |
| PB 81–179 (***see*** Haynes Lake) | BC–19 |
| PC (***see*** Homer) | NWT–83 |
| PEC (***see*** Mountain Lake) | NWT–121 |
| Peg (***see*** McKenzie) | SASK–17 |
| Pékan | QUE–50 |
| Pellaire (***see*** Hi Do) | BC–193 |
| Pelletier Lake | QUE–267 |
| Pen (Yubet) | BC–135 |
| Penhale (***see*** Normandie) | QUE–34 |
| Penn–Cobalt | ONT–73 |
| Perch River | QUE–391 |
| Pershing Manitou | QUE–216 |
| Peso–Rex | YT–52 |
| Petit Lac Malbaie C | QUE–46 |
| Petrie Mine | ONT–455 |

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| Phelps Dodge – La Gauchetière Tp | QUE–334 |
| Philibert | QUE–357 |
| Pick | ONT–332 |
| Pick Lake | ONT–339 |
| Pickle Crow Mine | ONT–565 |
| Pidgeon Molybdenum | ONT–488 |
| Pidgeon–Dyment | ONT–466 |
| Pidgeon–Meglund Twp. | ONT–467 |
| Pike Lake | YT–27 |
| Pilgrim | BC–176 |
| Pilleys Island Mine | NFLD–15 |
| Pinchi Lake | BC–225 |
| Pinebay | MAN–63 |
| Pine Point | NWT–44 |
| Pine Portage | ONT–417 |
| Pine Portage | ONT–501 |
| Ping | YT–46 |
| Pin–Rouge Lake | QUE–113 |
| Pio Lake | QUE–89 |
| Pipe | MAN–86 |
| Pistol Lake | NWT–41 |
| Pitching Lake | SASK–38 |
| Pitch–Ore | SASK–76 |
| Pitman (JB) | BC–292 |
| Plaster Pond | NFLD–37 |
| Playter Harbour | ONT–337 |
| Pluto Bay Area | SASK–92 |
| Point Leamington Deposit | NFLD–12 |
| Pointe–aux–Morts | QUE–6 |
| Poirier Mine | QUE–330 |
| Poison Mountain | BC–186 |
| Polaris–Taku (Whitewater) | BC–342 |
| Pollock (***see*** Gold Mtn) | BC–120 |
| Pollon Lake (Deep Bay) | MAN–20 |
| Pomeroy | BC–168 |
| Popelogan | NB–44 |
| Poplar | BC–227 |
| Populus Lake (***see*** Kenbridge) | ONT–443 |
| Porcupine | BC–127 |

Porcupine Peninsular ONT–274
Porcupine Southgate ONT–270
Porcupine West QUE–323
Porker (Highland JV) YT–3
Porphyry ONT–292
Portage–du–Fort QUE–98
Portneuf QUE–43
Pot Lake MAN–74
Poundmaker (***see*** Luleo) MAN–27
Powell Rouyn QUE–287
PR NWT–141
Prace ONT–184
Prairie Creek NWT–133
Prairie Lake ONT–343
Preissac QUE–313
Prelude Lake NWT–69
Premier Langmuir ONT–275
Preston (***see*** Olive) ONT–413
Preston Mine ONT–271
Preview Lake SASK–35
Priest's Copper Deposit NFLD–53
Primer BC–126
Principle Strategic Minerals ONT–159
Profeit (Doc) YT–47
Pronto ONT–148
Prosperity, Porter Idaho BC–315
Provençal QUE–35
Prud'homme No 1 QUE–87
Puddy Lake ONT–507
Puffy Lake MAN–81
Purdex (***see*** A–D) ONT–424
Puyjalon Lake (Everett) QUE–9
Python (Makaoo) BC–143

QR (Quesnel River) BC–206
QSR (***see*** Rocky Brook) NB–57
Quandt Group (***see*** Ramsey Showing) SASK–5
Quartz Lake (***see*** McMillan) YT–2
Quebec Beryllium QUE–315
Que. Chibougamau (Copper Rand #3) QUE–385
Quebec Chibougamau Goldfields QUE–386
Quebec Columbium QUE–106
Quebec Explorers QUE–197
Quebec Lithium QUE–211
Quebec Manitou (Wrightbar) QUE–198
Quebec Sturgeon River (***see*** Rocky Brook) NB–57
Queensway ONT–309
Quesabe Mine QUE–288
Quesnel River (***see*** QR) BC–206
Quill Creek (***see*** Wellgreen) YT–60
Quyta ONT–489

Racette Lake QUE–125
Raglan Nickel QUE–404
Rail Lake MAN–57
Rainbow BC–144
Rambler Main Mine NFLD–54
Rambler Ming Mine NFLD–55
Rambler Pond Tailings NFLD–56
Ram & Rod NWT–131
Ramsay Showing (Quandt Group) SASK–5
Rancheria (Gem) BC–348
Randall Lake ONT–574
Rand Malartic QUE–246
Rand No 2 ONT–324
Ranger MAN–19
Ranson ONT–198
Rare Earth Mine (Rare Earth No 1) ONT–32
Rare Earth No 1 (***see*** Rare Earth Mine) ONT–32
Rare Earth No 2 (***see*** Blue Rock Occurrence) ONT–26
Raven & Horseshoe SASK–23
Raven River (Laguerre) ONT–88
Rawdon (***see*** West Gore) NS–14
Ray NWT–1
Rea Gold (Discovery Zone) BC–72
Red BC–261
Red Bird (CAFB) BC–212
Red, Chris BC–335

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| Redcon | ONT–552 |
| Red Crest | ONT–531 |
| Red Dog | BC–182 |
| Red Dog | BC–333 |
| Red Elephant | BC–54 |
| Red Mountain | YT–12 |
| Red Mountain, (***see*** Coxey) | BC–25 |
| Red Rose | BC–243 |
| Redruth | ONT–553 |
| Red Wing | BC–302 |
| Reed–Bélanger (Chromeraine) | QUE–36 |
| Reed–Booth Prospect | ONT–325 |
| Reed Lake | MAN–58 |
| Reef (Reef Lake) | SASK–45 |
| Reef Mine | ONT–302 |
| Reeves Mine | ONT–310 |
| Regal Silver Snowflake | BC–84 |
| Regcourt | QUE–165 |
| Regentry Metals | ONT–326 |
| Regina (***see*** Silver Belle) | ONT–415 |
| Reid Lake (***see*** Ann) | NWT–51 |
| Rein | YT–80 |
| Reliance | BC–162 |
| REN | NWT–114 |
| Rendell–Jackman | NFLD–50 |
| Renfrew Zinc Prospect | ONT–54 |
| Renner | ONT–193 |
| Rennie | ONT–314 |
| Renzy Lake | QUE–138 |
| Resenor (Senore) | QUE–199 |
| Reservation 34 (***see*** Minago River) | MAN–40 |
| Reserve Lake | ONT–383 |
| Restigouche (Charlotte Group) | NB–43 |
| Resting Lake | MAN–54 |
| Retty Lake – Centre | QUE–74 |
| Retty Lake – Pogo | QUE–75 |
| Rex | YT–58 |
| Rex (***see*** Peso–Rex) | YT–52 |
| Rexspar (***see*** Black Diamond) | BC–76 |
| Rexspar (***see*** Spar) | BC–78 |
| Rey Lake | BC–136 |
| Reynar Lake – Almo Lake | ONT–526 |
| Ribb (***see*** Mitchell Lake) | NWT–75 |
| Ribble | ONT–227 |
| Rice Island | MAN–51 |
| Richard Lake | ONT–479 |
| Richardson (***see*** Fission) | ONT–35 |
| Richardson | ONT–558 |
| Richfield | BC–229 |
| Richmond Gulf – Little Whale River | QUE–402 |
| Richmore | ONT–408 |
| Rinfret (***see*** Kellogg) | QUE–378 |
| Rio | SASK–3 |
| Risby (***see*** Cab) | YT–22 |
| Rita No. 1 (Independence) | MAN–28 |
| R.M. Nickel | QUE–268 |
| R N (GEO) | BC–112 |
| Robb Lake | BC–258 |
| Roberge Lake | QUE–390 |
| Robinson Creek | SASK–9 |
| Roche | ONT–169 |
| Rocher Deboule | BC–244 |
| Rocky Brook (QSR) | NB–57 |
| Rocky Turn | NB–41 |
| ROD | NWT–81 |
| Rollmac | QUE–327 |
| Romaines Brook | NFLD–38 |
| Ronan Deposit | NFLD–39 |
| Rondah | BC–257 |
| Ronnoco | ONT–293 |
| Root Lake (***see*** McCombe) | ONT–518 |
| Roper (***see*** Spud Valley) | BC–172 |
| Ross Zone (Showing 49–CC, 1–11) | SASK–77 |
| Rottenstone L (Hall) | SASK–44 |
| Round Pond Deposit | NFLD–60 |
| Roundy Creek | BC–306 |
| Rouyn–Merger | QUE–255 |
| Rowan | ONT–532 |

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| Rowbottom | BC–191 |
| Row Group | SASK–95 |
| Roy | NWT–132 |
| Royado (Cathroy) | ONT–89 |
| Royco (*see* Midrim) | QUE–141 |
| Roymont (*see* Bardome Project) | QUE–207 |
| Roy–Ross (*see* St–Fabien) | QUE–57 |
| Ruby | ONT–70 |
| Ruby Lake (*see* Richmond Gulf) | QUE–402 |
| Ruddock Creek | BC–81 |
| Rum Point, Whiskey Lake | ONT–173 |
| Rundle | ONT–210 |
| Rundle No 2 (Miquelon) | ONT–211 |
| Russell Lake (Bugow Gp) | NWT–96 |
| Russian Kid (*see* Bordulac) | QUE–274 |
| Russnor (Griswold) | BC–156 |
| Ruth | NWT–62 |
| Ruth, Vermont | BC–63 |
| Ryan Lake | ONT–237 |
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| Sabine | ONT–516 |
| Sachowia Lake (Gogo) | NWT–21 |
| Sad (*see* Gee Lake) | SASK–11 |
| St Adrien Mountain | QUE–18 |
| St Anthony Mine | ONT–513 |
| St–Charles | QUE–59 |
| St–Cyr | QUE–122 |
| St–Denis Manganese | QUE–53 |
| St Elmo (*see* Golden Queen) | BC–27 |
| St–Fabien (Roy–Ross) | QUE–57 |
| St–Fabien Copper (Eastern Metals) | QUE–42 |
| St–Lawrence Columbium | QUE–107 |
| St–Rémi | QUE–111 |
| St. Stephen | NB–5 |
| St–Urbain | QUE–45 |
| St–Vianney | QUE–52 |
| Sakami Lake | QUE–400 |
| Sakoose Mine | ONT–468 |
| Salkeld | NWT–20 |
| Salmond Gold (*see* Scottie Gold) | BC–319 |
| Samreid Lake | ONT–176 |
| San Antonio and Forty–Four | MAN–29 |
| Sandfill Prospect | NFLD–35 |
| Sand Lake (Studer) | SASK–50 |
| Sandy Beach Lake | ONT–490 |
| Sannorm | MAN–30 |
| Sanshaw | ONT–554 |
| Sapawe Mine (Atiko) | ONT–399 |
| Saucer Lake (BS) | NWT–26 |
| Sawbill Lake | ONT–400 |
| S–B (*see* Silver Butte) | BC–320 |
| SB Smith (Van Sickle) | ONT–199 |
| Schaft Creek | BC–332 |
| Schmidt | ONT–491 |
| Schotts Lake | SASK–10 |
| Schumacher (*see* McIntyre Porcupine) | ONT–266 |
| Scotia | BC–286 |
| Scott Falls Dam | NB–4 |
| Scott Lake | QUE–364 |
| Scottie Gold (Salmond Gold) | BC–319 |
| Scramble Mine | ONT–430 |
| Seabee | SASK–13 |
| Second Gold Brook (*see* Middle River) | NS–33 |
| Seine Bay – Bad Vermilion Lake | ONT–409 |
| Selby Lake | ONT–464 |
| Seleine (*see* Madeleine Islands) | QUE–1 |
| Senator | QUE–269 |
| Seneca (*see* Harrison) | BC–111 |
| Senet | ONT–576 |
| Senore (*see* Resenor) | QUE–199 |
| Serb Creek | BC–232 |
| Setting Net Lake | ONT–577 |
| Sewell | ONT–448 |
| Seymour | BC–235 |
| Seymour Lake (*see* Aubry) | ONT–509 |
| SH (*see* Lost Lake) | NWT–13 |
| Shag Rock | BC–294 |
| Shanghai | YT–33 |

Shas BC-270
Shaynee ONT-333
Shear Lake NWT-7
Sheba BC-137
Sheba ONT-160
Sheldon-Larder ONT-90
Sherwood BC-96
Shmoo Lake (***see*** De La Blache) QUE-65
Shoot ONT-294
Shorty 1 (Greg) NWT-67
Showing 45-Sh-10 SASK-63
Showing 49-CC-1-11 (***see*** Ross Zone) SASK-77
Showing 50-CC-1-128C SASK-78
Showing 50-TT-75 SASK-81
Showing 55 SASK-82
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Shunsby (Aldra) ONT-203
Silidor QUE-289
Silverado (***see*** Danzig) BC-91
Silver Basin BC-51
Silver Bay NWT-112
Silver Bear & North (***see*** Terra) NWT-110
Silver Belle (Regina) ONT-415
Silver Butte (S-B) BC-320
Silver Chief BC-115
Silver Cliff Mine NFLD-5
Silver Creek Showings (***see*** Groundhog) YT-20
Silver Islet ONT-388
Silver King BC-29
Silverknife BC-349
Silvermaque ONT-170
Silvermaque (***see*** Geomaque) QUE-182
Silver Mountain ONT-386
Silver Queen (***see*** Nadina) BC-226
Silver Queen (***see*** Magno) BC-354
Silverquick BC-187
Silverside ONT-71
Silver Star (***see*** Suffield Zone) QUE-15
Simkar (***see*** Louvicourt Goldfield) QUE-189
Simon Prospect ONT-45
Simon West QUE-166
Siscoe Extension (North Siscoe) QUE-200
Siscoe Metals ONT-222
Siscoe Mine QUE-201
Skead Gold Mine ONT-132
Skidder NFLD-29
Skukum Creek (Mount Reid) YT-16
Slate Creek (Big Agaunico) ONT-72
Sleepy QUE-167
Slemon NWT-90
Smith (***see*** Middle River) NB-38
Smithfield (Leadville) NS-15
Smith-Nash BC-209
Smith-Parozanin ONT-393
Smith-Tiblemont (***see*** Valiant) QUE-218
SMRB, Jeff (Kutcho Creek) BC-336
Snip BC-326
Snodgrass ONT-395
Snoppy Lake ONT-572
Snowbird BC-224
Snowflake (***see*** Regal Silver) BC-84
Snow Lake (Goldfields) MAN-75
Soab Mine MAN-84
Sol-D'Or ONT-556
Solo-Oro Grande MAN-24
Soma-Alta (***see*** LeTac) QUE-344
Sophia Mine ONT-13
Sothman ONT-234
Soucy No. 1 QUE-88
Sour Lake NWT-30
South Burnt Creek NWT-128
South Dufault QUE-299
South Ham Antimony QUE-19
South Pond Prospect NFLD-25
South Rusty Hill QUE-290
South Tiblemont QUE-168
Southseas (***see*** Trojan) BC-147

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| Spain Mine | ONT–50 |
| Spanish American | ONT–171 |
| Spar (Rexspar) | BC–78 |
| Spider | BC–60 |
| Spider Lake (Fly Cls) | NWT–108 |
| Spokane | BC–184 |
| Spokane | BC–192 |
| Spot (Donner) | MAN–15 |
| Spreckley Lake M–13 Anomaly | SASK–96 |
| Springer (***see*** Allard Lake Area) | QUE–8 |
| Springers Hill | NFLD–42 |
| Spud Valley (Roper) | BC–172 |
| Squall Creek (Julian) | MAN–76 |
| Squall Lake | MAN–77 |
| Stabell (Jacola) | QUE–202 |
| Stackpool (Jefferson) | ONT–212 |
| Stadacona East | QUE–270 |
| Stairs | ONT–235 |
| Stanleyville (***see*** Olympus) | ONT–22 |
| Star (Apex) | BC–279 |
| Star, Prosperous Lake (***see*** Tin) | NWT–86 |
| Starratt–Olsen | ONT–522 |
| Steele Brook | QUE–123 |
| Steinberg | ONT–153 |
| Stemwinder | BC–12 |
| Stenabaugh | ONT–200 |
| Sterrett Mine (***see*** Lili) | QUE–121 |
| Stewart | BC–30 |
| Stewart Island | SASK–59 |
| Stirling (Mindamar) | NS–26 |
| Storer – Cap–aux–Meules | QUE–3 |
| Storie (Casmo) | BC–351 |
| Storm (Bea & Apr) | NWT–64 |
| Storm | NWT–97 |
| Stormy Group | YT–18 |
| Strachens Lake Brook | NB–33 |
| Stralak | ONT–140 |
| Strange Lake, Nfld–Que | NFLD–66 |
| Stratmat Deposit | NB–32 |
| Straw Lake Beach Mine | ONT–435 |
| Strickland Prospects | NFLD–21 |
| Strip (***see*** Domergue Lake) | QUE–393 |
| Studer (***see*** Sulphide Lake) | SASK–36 |
| Studer, (***see*** Sand Lake) | SASK–48 |
| Studer S & O No. 13 (***see*** DEE No. 1) | SASK–32 |
| Stump (Key), (Ketza Key) | YT–19 |
| Sturgeon River | ONT–362 |
| Sudbury Shakespeare | ONT–118 |
| Sudore (Wanapitei Basin) | ONT–133 |
| Sue (***see*** Clear Lake) | YT–31 |
| Sue–Dianne | NWT–92 |
| Suffield Zone | QUE–15 |
| Sullipek (***see*** Pékan) | QUE–50 |
| Sullivan Mine | QUE–203 |
| Sulphide Lake (Studer) | SASK–36 |
| Sun | NWT–88 |
| Sunbeam Mine | ONT–401 |
| Sunbeam & Waverley | MAN–2 |
| Sunny Cave (***see*** Vansilver) | BC–153 |
| Sunrise | ONT–336 |
| Sunrise Lake | NWT–80 |
| Sunro (Jordan River) | BC–89 |
| Sunset (***see*** Mother Lode) | BC–7 |
| Sunshine (Tolman) | BC–138 |
| Supercrest (Akaitcho) | NWT–85 |
| Surf Inlet | BC–284 |
| Surf Point, Edye Pass | BC–293 |
| Surluga | ONT–201 |
| Susap (King Edward) | BC–13 |
| Sustut | BC–264 |
| Susu Lake | NWT–24 |
| Suzorite (Siscoe) | QUE–152 |
| Swamp (Mud) River | ONT–394 |
| Swanson | QUE–228 |
| Swayze | ONT–213 |
| Swim Lake | YT–30 |
| Sylvanite (Jessie Lake) | ONT–449 |
| Sylvia Zone (***see*** Dyce Siding) | MAN–55 |

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| SYN & VEN | NWT–101 |
| T–Group | QUE–387 |
| T.A. (*see* Bullmoose Lake) | NWT–55 |
| Tabor Lake | ONT–469 |
| Taché Lake | QUE–388 |
| Takijuq Lake (Hood River) | NWT–116 |
| Takla Rainbow | BC–254 |
| Tally Pond (*see* Duck Pond) | NFLD–26 |
| Talmora Longlac Mine | ONT–352 |
| Tam | BC–277 |
| Tamar | SASK–41 |
| Tamara–Drummond | QUE–114 |
| Tamarac | BC–31 |
| Tangier Mine | NS–5 |
| Tashota Nipigon | ONT–379 |
| Tasu | BC–280 |
| Tay (*see* Apex) | BC–97 |
| Taylor Brook | NB–34 |
| Tea | YT–40 |
| Teahan | NB–9 |
| T.E. Campbell (*see* Campbell Vein) | NS–34 |
| Teck–Hughes Mine | ONT–246 |
| Teddy Glacier | BC–61 |
| Tedi | BC–152 |
| Temagami | ONT–145 |
| Ten Mile Lake | NFLD–65 |
| Terra Nova Mine | NFLD–57 |
| Terra (Silver Bear & North) | NWT–110 |
| Terrex (*see* Bouscadillac) | QUE–232 |
| Tetagouche Falls | NB–58 |
| Tetra | BC–242 |
| Texasgulf–Cunningham | ONT–204 |
| Texmont | ONT–249 |
| Tex–Sol | QUE–204 |
| Theresa | ONT–353 |
| Thierry Mine | ONT–563 |
| Thompson–Lundmark | NWT–68 |
| Thor | NWT–48 |
| Thor (Echo) | NWT–63 |
| Thrasher (P–218) | ONT–431 |
| Three Star | ONT–107 |
| Thye (*see* Nickel King) | NWT–17 |
| Tiblemont Cons. Mines | QUE–217 |
| Tidewater | BC–303 |
| Tillicum | BC–37 |
| Tim | BC–199 |
| Timmins Mine | ONT–9 |
| Tin | NWT–86 |
| Tinta Hill | YT–69 |
| Tisdale–Ankerite | ONT–272 |
| Titanium Development | QUE–129 |
| Toad River | BC–276 |
| Tobe Showing 10–2 (*see* Chance Lake) | SASK–71 |
| Todd | ONT–41 |
| Todd Creek | BC–317 |
| Tolman (*see* Sunshine) | BC–138 |
| Tom | YT–39 |
| Tom Dick | QUE–137 |
| Tommy Burns | ONT–273 |
| Tonawanda | QUE–247 |
| Tor (Meta Uranium) | SASK–68 |
| Torbrit (Toric) | BC–310 |
| Toro (Churchill) | BC–273 |
| Totten Mine | ONT–122 |
| Tourist Lake | ONT–527 |
| Tower Lake East | SASK–43 |
| Tribag | ONT–191 |
| Trinity | QUE–229 |
| Troïlus Freegold | QUE–395 |
| Troïlus North | QUE–396 |
| Trojan (Southseas) | BC–147 |
| Trout Bay | ONT–533 |
| Trout Bay Nickel | ONT–534 |
| Trout Brook (*see* Evans) | NS–35 |
| Trout Lake | BC–57 |
| Trout Lake | NS–19 |
| Troysco (Ham–Nord) | QUE–20 |

True Fissure BC–55
TT (*see* Dome Lake) NWT–73
Tuf (*see* Kane) YT–55
Tulk's East NFLD–31
Tulk's Prospect NFLD–32
Tulsequah Chief BC–343
Tundra (Fat) NWT–27
Tundra Mine NWT–28
Turgeon NB–60
Turnback Lake NWT–65
Turner Lake NWT–42
Turquetil Lake NWT–2
Tuzo Creek BC–14
Twin Buttes ONT–14
Twin "J" (Tyee) BC–88
Twin Lakes ONT–172
Twin Zones (*see* Wedge Lake) SASK–19
Tyee (*see* Twin "J") BC–88
Tyranite ONT–228
Tyrrell Lake ONT–402

Uchi Mine ONT–538
Uebel (Fern Hill) BC–173
Undersill ONT–504
University ONT–74
Upper Beaver ONT–91
Upper Canada Mine ONT–92
Upper Mine (Dean & Chapter) NS–45
Upper Seal Harbour NS–22
Upton QUE–125
Uranium Group NWT–120
Ute BC–246

Val YT–44
Valiant (Smith–Tiblemont) QUE–218
Valray (Crangold) QUE–271
Vamp Lake MAN–64
Vanguard BC–311
Van Sickle (*see* SB Smith Mine) ONT–199
Vansilver (Sunny Cave) BC–153
Vassan Resources QUE–205
Vauquelin (Nordeau) QUE–169
Vega ONT–363
Vegan ONT–347
Vendome (*see* Bardome Project) QUE–207
Venus NWT–15
Venus QUE–212
Venus YT–14
Vera (*see* Ankerite Vera) YT–43
Vermilion Lake ONT–138
Vermilion Valley ONT–143
Vermont Zinc (Dik Dik) QUE–220
Verna (*see* Eldorado Beaverlodge) SASK–65
Vezza QUE–349
Vianor (Wood) QUE–170
Victor BC–144
Victoria NFLD–30
Victor Island ONT–450
Victoria BC–245
Victory BC–23
Victory BC–312
Vidette BC–196
Viking BC–103
Viking Yellowknife (*see* BBB) NWT–93
Villalta BC–92
Villbona ONT–492
Villebon Ni (*see* Céré) QUE–149
Vimy ONT–281
Vimy 100 BC–139
Vimy 200 (*see* Wiz 21 & 30) BC–140
Viola (*see* JC) YT–8
Violet MAN–52
Virgin Lake SASK–69
Virginia ONT–451
VO (Cota) NWT–71
Vowell & Malloy Creek Placers BC–64
Voy Zone 5 SASK–85
V–46 Zone (*see* Great Slave Reef) NWT–43

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| Wadasa (***see*** Northern Nuclear) | ONT–31 |
| Wadge | ONT–93 |
| Wagner | BC–56 |
| Waite Dufault (Bedford Hill) | QUE–291 |
| Wally (***see*** Alberts Lake) | MAN–60 |
| Walton (Magnet Cove) | NS–47 |
| Wampum Lake | ONT–452 |
| Wanapitei | ONT–124 |
| Wanapitei Basin (***see*** Sudore) | ONT–133 |
| Warhorse (Boy Scout) | BC–33 |
| Warman (***see*** Northair) | BC–151 |
| Warrenmac South | QUE–300 |
| Wasa Lake (Wasamac No 1) | QUE–272 |
| Wasekwan Lake (C.L.) | MAN–99 |
| Washeibemaga Lake | ONT–465 |
| Waverley (***see*** Sunbeam & Waverley) | MAN–2 |
| Wayside | BC–163 |
| Webber–Huestis (***see*** Mount Nansen) | YT–63 |
| Webster Lake (***see*** Fletcher) | QUE–117 |
| Wedge Lake (Twin Zones) | SASK–19 |
| Weedy Lake | SASK–18 |
| Weir's Brook | NFLD–11 |
| Wellgreen | YT–60 |
| Wendell (***see*** Dumont) | QUE–222 |
| Wensley | ONT–453 |
| Werner Lake – Gordon Lake Mine | ONT–528 |
| Westario | ONT–519 |
| Westarm | MAN–59 |
| West Bear | SASK–49 |
| Western Quebec | QUE–206 |
| West Gore (Rawdon) | NS–14 |
| West Lithium | ONT–502 |
| West MacDonald (***see*** Gallen) | QUE–297 |
| West Malartic | QUE–248 |
| Westwood | QUE–314 |
| Wharncliffe | ONT–161 |
| Whit | BC–219 |
| White–Guyatt | ONT–287 |
| White Head Island | NB–2 |
| Wihtehorse Copper Belt | YT–17 |
| White River Lead | ONT–177 |
| Whitewater (***see*** Polaris–Taku) | BC–342 |
| Wightman (***see*** Little River Deposits) | NS–46 |
| Wigwam | BC–62 |
| Wilbermere Lake | ONT–39 |
| Wilco | QUE–301 |
| Willa | BC–40 |
| Willecho | ONT–369 |
| Williams Creek | YT–70 |
| Willroy Mine | ONT–370 |
| Wilmar Mine | ONT–555 |
| Wilport | ONT–505 |
| Wim | MAN–78 |
| Windfall (***see*** Windward) | ONT–493 |
| Windpass, Sweet Home | BC–198 |
| Wind R (***see*** Ahearne) | YT–54 |
| Windsor (Aylmer) | QUE–24 |
| Windward (Windfall) | ONT–493 |
| Windy Craggy | BC–359 |
| Windy (Balsam) | BC–355 |
| Windy Lake (Lac des Vents) | QUE–359 |
| Wingait (***see*** Macwin) | QUE–265 |
| Wingold | MAN–31 |
| Winnipeg (***see*** Golden Crown) | BC–4 |
| Winter Lake (Bruce–Avis) | NWT–98 |
| Wisa Lake | ONT–403 |
| Wisconsin | BC–32 |
| Wit, Wag | BC–249 |
| Wiz 21 & 30 (Vimy 200) | BC–140 |
| Wolf | BC–313 |
| Wolf | MAN–20 |
| Wood (***see*** Vianor) | QUE–170 |
| Wood–Cadillac (***see*** Cons. Central Cadillac) | QUE–235 |
| Woodstock (Hartford) | NB–20 |
| Woods–Tyson (Amorada) | ONT–506 |
| Worthington Mine | ONT–123 |
| Worvest (***see*** Ben–Arch) | ONT–101 |
| Wreck Lake (***see*** Dot No 47) | NWT–124 |

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| Wrightbar (*see* Quebec Manitou) | QUE–198 |
| Wright–Hargreaves | ONT–247 |
| Wright Mine | QUE–142 |
| Wright–Rouyn | QUE–273 |
| Wrigley | NWT–138 |
| WT | NWT–77 |
| W W Smith | ONT–478 |
| X–25 Zone (*see* Great Slave Reef) | NWT–43 |
| Yates | QUE–100 |
| Yathkyed Lake (*see* Lac Cinquante) | NWT–11 |
| Yava | NS–31 |
| Yava | NWT–37 |
| York Harbour Mine | NFLD–43 |
| Young–Davidson | ONT–238 |
| Young–Shannon | ONT–232 |
| Yreka | BC–174 |
| Yubet (*see* Pen) | BC–135 |
| Yuk (*see* Mountain Lake) | NWT–121 |
| "Z" Deposit | MAN–97 |
| Zealand Station | NB–18 |
| Zenmac (Loon Call) (Newkirk B Group) | ONT–24 |
| Zeta | YT–77 |
| Zinc Lake | ONT–215 |
| Zip | BC–177 |
| Zulapa (*see* Valiant) | QUE–218 |